Purdue University

GWN 10293 Weed Control Combinations for Corn

Trial ID: 14S-THP-CTC-02  Protocol ID: 14S-THP-CTC-02
Location: Throckmorton  Study Director: Dr. Bill Johnson
Project ID: 10293 Corn  Investigator: Dr. Bill Johnson
Sponsor Contact: Gowan - Alan Helm

General Trial Information

Investigator: Dr. Bill Johnson  Title: Professor
Discipline: Herbicide
Trial Status: Established

Trial Location

City: Lafayette
State/Prov.: IN
Postal Code: 47909
Country: USA

Personnel

Investigator: Dr. Bill Johnson  Title: Professor
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907
E-mail: wgj@purdue.edu
Phone No.: 765-494-4656  Mobile No.: 765-404-9801

Cooperator/Landowner

Cooperator: Throckmorton Purdue Ag Center  Role: Purdue Ag Center
Organization: Purdue University
Address 1: 8343 US 231 S
City: Lafayette
State/Prov.: IN
Postal Code: 47909
E-mail: jayyoung@purdue.edu
Phone No.: 765-538-3422  Fax No.: 765-538-3423
Country: USA

Crop Description

Crop 1: ZEAMD  Zea mays indentata  Dent corn
Variety: Dekalb DKC 62-08  Description: HXX, LL, RR2
BBCH Scale: BCOR  Planting Date: May-5-2014
Planting Method: SEEDED  seeded  Rate, Unit: 33000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: FINE  fine
Emergence Date: May-12-2014

Pest Description

Pest 1 Type: W  Code: AMBTR Ambrosia trifida  Common Name: Giant ragweed
Pest 2 Type: W  Code: SETFA Setaria faberi  Common Name: Giant foxtail
Pest 3 Type: W  Code: CHEAL Chenopodium album  Common Name: Common lambsquarters
Pest 4 Type: W  Code: ABUTH Abutilon theophrasti  Common Name: Velvetleaf

Site and Design

Plot Width, Unit: 10 FT  Site Type: FIELD  field
Plot Length, Unit: 30 FT  Experimental Unit: 1  PLOT plot
Plot Area, Unit: 300 FT2  Tillage Type: CONTIL  conventional-till
Replications: 4  Study Design: RACOBL Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED  single control randomized in each block
## Soil Description

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<th>Description Name:</th>
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<tr>
<td>Texture:</td>
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## Application Description

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<td>Jun-6-2014</td>
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<td>ATPLAN</td>
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<td>% Relative Humidity:</td>
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<td>Wind Velocity, Unit:</td>
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<td>Wind Direction:</td>
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<td>Dew Presence (Y/N):</td>
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## Crop Stage At Each Application

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## Pest Stage At Each Application

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<td>Carrier:</td>
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<td>Spray Volume, Unit:</td>
<td>20 gal/ac</td>
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<td>Mix Size, Unit:</td>
<td>2.5 liters</td>
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<td>Propellant:</td>
<td>CO2</td>
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# Purdue University

## GWN 10293 Weed Control Combinations for Corn

**Trial ID:** 14S-THP-CTC-02  
**Location:** Throckmorton  
**Study Director:**  
**Project ID:** 10293 Corn  
**Investigator:** Dr. Bill Johnson  
**Sponsor Contact:** Gowen - Alan Helm

### Reps: 4  
**Plots:** 10 by 30 feet  
**Spray vol:** 20 gal/ac  
**Mix size:** 2.5 liters (min 2.0856)

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<th>Trt No.</th>
<th>Treatment Name</th>
<th>Form Conc Unit</th>
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<th>Amt Product Code Description</th>
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<td>2</td>
<td>GWN 10293 (50 WDG)</td>
<td>50 % WG 60 g a/i/a</td>
<td>4.23 oz/a</td>
<td>ATPLAN</td>
<td>3.963 g/mx</td>
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<tr>
<td></td>
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<td>NIS 100 % SL 0.25 % v/v/gal</td>
<td>0.25 % v/v/gal</td>
<td>ATPLAN</td>
<td>6.249 ml/mx</td>
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<td>AMS - Liquid 3.4 LB/GAL SL 17 lb a/100 gal</td>
<td>20 qt/100 gal</td>
<td>ATPLAN</td>
<td>125.0 ml/mx</td>
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<td>COC 100 % SL 1 % v/v/gal</td>
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<td>AMS - Liquid 3.4 LB/GAL SL 17 lb a/100 gal</td>
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<td>MSO 100 % L 1 % v/v</td>
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<td>AMS - Liquid 3.4 LB/GAL SL 17 lb a/100 gal</td>
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<td>ATPLAN</td>
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<td>GWN 10293 (50 WDG)</td>
<td>50 % WG 60 g a/i/a</td>
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<td>MIPOCR</td>
<td>&lt;12&quot; Corn</td>
<td>3.963 g/mx</td>
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<td>NIS 100 % SL 0.25 % v/v/gal</td>
<td>0.25 % v/v/gal</td>
<td>MIPOCR</td>
<td>&lt;12&quot; Corn</td>
<td>6.249 ml/mx</td>
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<td>Dual II Magnum (7.64 EC) 7.64 LBA/GAL EC 576 g/a</td>
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<td>Atrazine 4 LBA/GAL F 0.5 lb/a</td>
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<td>Atrazine 4 LBA/GAL F 0.5 lb/a</td>
<td>16 oz/a</td>
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<td>NIS 100 % SL 0.25 % v/v</td>
<td>0.25 % v/v</td>
<td>ATPLAN</td>
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<td>GWN 10293 (50 WDG)</td>
<td>50 % WG 60 g a/i/a</td>
<td>4.23 oz/a</td>
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<td>&lt;12&quot; Corn</td>
<td>3.963 g/mx</td>
<td>106</td>
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<td>Permit (75 WG) 75 % WG 14.2 g/a</td>
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<td>COC 100 % L 1 % v/v</td>
<td>1 % v/v</td>
<td>MIPOCR</td>
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<td>14</td>
<td>GWN 10293 (50 WDG)</td>
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Sort Order: Treatment
### Purdue University

#### Trial ID: 14S-THP-CTC-02  
Protocol ID: 14S-THP-CTC-02

**Location:** Throckmorton  
**Study Director:**  
**Project ID:** 10293 Corn  
**Investigator:** Dr. Bill Johnson  
**Sponsor Contact:** Gowan - Alan Helm

---

**Pest Type:** Weed  
**Pest Code:** 
- AMBTR  
- IPOHE  
- SETFA  
- BCOR  
- ECOR  
- ZEAMX  
- ZEAMD  
- ZEAMD  
- ZEAMD  

**Pest Scientific Name:** 
- Ambrosia trifida  
- Ipomoea hederacea  
- Setaria faberi  
- Zea mays indentata  
- Zea mays indentata  
- Zea mays  

**Crop Code:** 
- ZEAMD  
- ZEAMX  
- ZEAMD  
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- ZEAMD  

**BBCH Scale:** 
- BCOR  
- BCOR  
- BCOR  
- BCOR  

**Crop Scientific Name:** 
- Zea mays indentata  
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- Zea mays indentata  
- Zea mays indentata  

**Crop Name:** 
- Dent corn  
- Dent corn  
- Dent corn  
- Dent corn  
- Dent corn  

**Crop Variety:** 
- Dekalb DKC 62->  
- Dekalb DKC 62->  
- Dekalb DKC 62->  
- Dekalb DKC 62->  
- Dekalb DKC 62->  

**Rating Date:** 
- May-21-2014  
- May-21-2014  
- May-21-2014  
- Jun-2-2014  
- Jun-2-2014  

**Rating Type:** 
- CONTRO  
- CONTRO  
- PHYGEN  
- CONTRO  
- CONTRO  

**Rating Unit:** 
- %  
- %  
- %  
- %  
- %  

**Sample Size, Unit:** 
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- 1 PLOT  
- 1 PLOT  
- 1 PLOT  
- 1 PLOT  

**Number of Subsamples:** 
- 1  
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- 1  
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- 1  

**Crop Stage Majority:** 
- V4  
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**Pest Stage Majority:** 
- 3  
- 1.5  
- 1.5  

**Pest Density, Unit:** 
- 10 YD2  
- 1 YD2  
- 5 YD2  
- 5 YD2  

**Days After First/Last Applic.:** 
- 15 15  
- 15 15  
- 15 15  
- 27 27  
- 27 27  

**Plant-Eval Interval:** 
- 16 DP-1  
- 16 DP-1  
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- 28 DP-1  
- 28 DP-1  

**Days After Emergence:** 
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- 9 DE-1  
- 21 DE-1  
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#### Purdue University

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Mean = 41.3 | 99.3 | 0.0 | 18.8 | 12.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0
Mean = 56.3 | 99.0 | 0.0 | 89.8 | 96.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0
Mean = 41.3 | 99.0 | 0.0 | 87.8 | 96.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0
Mean = 28.8 | 99.0 | 0.0 | 83.3 | 96.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0
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Mean =

| W Weed | W Weed | AMBTR | Ambrosia trifida | NIS | Giant ragweed | SETFA | Setaria faber | Giant foxtail | BCOR | Zea mays indentata | DENT | 0.25 % v/v | Zea mays indentata | 0.8 | Zea mays indentata | 2.5 | 15 lb ai/100 gal | 30.0 | 80.0 | 30.0 | 90.0 | 15 lb ai/100 gal | 30.0 | 80.0 | 30.0 | 90.0 |

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<td>BCOR</td>
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### Trt 2: GWN 10293 (50 WDG)

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**Mean =**

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**Mean =**

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**Mean =**

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**Mean =**

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## Purdue University

### Assessment Data Summary Page 11 of 13

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### Trt Treatment No. Name Rate Unit Code Plot

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Mean = 2.3 0.0 15.2 0.0 1.5
### Purdue University

#### Assessment Data Summary Page 12 of 13

| Pest Type | Pest Code | Pest Scientific Name | Pest Name | Crop Code | BBCH Scale | Crop Scientific Name | Crop Variety | Rating Date | Rating Type | Rating Unit | Sample Size, Unit | Number of Subsamples | Crop Stage Majority | Pest Stage Majority | Pest Scientific Name | Pest Name | Crop Code | Crop Scientific Name | Crop Variety | Rating Date | Rating Type | Rating Unit | Sample Size, Unit | Number of Subsamples | Crop Stage Majority | Pest Stage Majority | Pest Scientific Name | Pest Name | Crop Code | Crop Scientific Name | Crop Variety | Rating Date | Rating Type | Rating Unit | Sample Size, Unit | Number of Subsamples | Crop Stage Majority | Pest Stage Majority | Pest Scientific Name | Pest Name | Crop Code | Crop Scientific Name | Crop Variety | Rating Date | Rating Type | Rating Unit | Sample Size, Unit | Number of Subsamples | Crop Stage Majority | Pest Stage Majority | Pest Scientific Name | Pest Name | Crop Code | Crop Scientific Name | Crop Variety | Rating Date | Rating 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### GWN 10293 Weed Control Combinations for Corn

**Trial ID:** 14S-THP-CTC-02  
**Protocol ID:** 14S-THP-CTC-02  
**Location:** Throckmorton  
**Project ID:** 10293 Corn  
**Study Director:**  
**Investigator:** Dr. Bill Johnson  
**Sponsor Contact:** Gowan - Alan Helm

#### Pest Type
- W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

#### Pest Code
- AMBTR, Ambrosia trifida, = US  
- IPOHE, Ipomoea hederacea, = US  
- SETFA, Setaria faberi, = US  
- CHEAL, Chenopodium album, = US

#### Crop Code
- ZEAMD, BCOR, Zea mays indentata, = US  
- ZEAMX, BCOR, Zea mays, = US

#### Rating Type
- CONTRO = control / burndown or knockdown  
- PHYGEN = phytotoxicity - general / injury  
- PHYDEF = phytotoxicity - deformation (cupping, spinasty, leaf wrap, wrinkling)  
- PHYSTU = phytotoxicity - stunting  
- PHYBLE = phytotoxicity - bleaching  
- PHYLMA = phytotoxicity - leaf malformation  
- PHYCHL = phytotoxicity - chlorosis

#### Rating Unit
- % = percent  
- PLOT = total plot

#### Pest Stage Majority
- 14 = 4 true leaves, leaf pairs or whorls unfolded  
- YD2 = per square yard  
- FT2 = per square foot

#### Plant-Eval Interval
- 16 DP-1 = 1 ZEAMD May-5-2014  
- 28 DP-1 = 1 ZEAMD May-5-2014  
- 38 DP-1 = 1 ZEAMD May-5-2014  
- 45 DP-1 = 1 ZEAMD May-5-2014  
- 58 DP-1 = 1 ZEAMD May-5-2014
# Purdue University

## GWN 10293 Weed Control Combinations for Corn

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Means followed by same letter do not significantly differ (P<.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
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### LSD and Probabilities

- LSD (*P* = 0.05): 34.61, 37.41, 0.00, 18.13, 32.42, 22.38
- Standard Deviation: 24.22, 26.18, 0.00, 12.69, 22.69, 15.66
- CV: 53.3, 29.61, 0.0, 20.78, 38.64, 22.67
- Bartlett's X2: 8.241, 4.88, 0.0, 54.862, 61.648, 33.174
- P(Bartlett's X2): 0.914, 0.30, 0.001*, 0.001*, 0.001*
- Replicate F: 1.609, 2.518, 0.000, 0.634, 0.305, 0.164
- Replicate Prob(F): 0.1997, 0.0695, 1.0000, 0.5966, 0.8219, 0.9200
- Treatment F: 1.976, 2.227, 0.000, 33.944, 8.723, 25.672
- Treatment Prob(F): 0.0354, 0.0171, 1.0000, 0.0001, 0.0001, 0.0001
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LSD (P = 0.05)  
Standard Deviation  
CV  
Bartlett's X2  
P(Bartlett's X2)  
Replicate F  
Replicate Prob(F)  
Treatment F  
Treatment Prob(F)
<p>| Trt Name  | Rate  | Unit  | Code | Rate | Unit | Code | Rate | Unit | Code | Rate | Unit | Code | Rate | Unit | Code | Rate | Unit | Code | Rate | Unit | Code |
|-----------|-------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|-------|------|------|-------|------|-------|------|
| 1 Untreated Check | 0.0 | a | | 0.0 | a | | 0.0 | e | | 0.0 | a | | 0.0 | f | |
| 2 GWN 10293 (50 WDG) | 60 g ai/a | A | | 2.5 | a | | 75.0 | a | | 7.5 | de | | 2.5 | bcd | | 0.0 | d | | 11.8 | def | |
| 3 GWN 10293 (50 WDG) | 60 g ai/a | A | | 2.5 | a | | 67.5 | a | | 35.0 | b-e | | 3.5 | a-d | | 0.5 | d | | 63.5 | a-d | |
| 4 GWN 10293 (50 WDG) | 60 g ai/a | A | | 1.3 | a | | 58.8 | a | | 17.5 | cde | | 2.5 | bcd | | 0.0 | d | | 55.0 | a-e | |
| 5 GWN 10293 (50 WDG) | 60 g ai/a | B | | 2.5 | a | | 72.5 | a | | 40.0 | b-e | | 6.0 | ab | | 4.3 | c | | 98.0 | a | |
| 6 GWN 10293 (50 WDG) | 60 g ai/a | B | | 1.3 | a | | 85.0 | a | | 75.0 | ab | | 5.8 | ab | | 10.3 | b | | 91.8 | ab | |
| 7 GWN 10293 (50 WDG) | 60 g ai/a | B | | 0.0 | a | | 83.3 | a | | 89.5 | a | | 6.8 | a | | 14.3 | a | | 98.0 | a | |
| 8 GWN 10293 (50 WDG) | 60 g ai/a | A | | 3.3 | a | | 81.3 | a | | 57.5 | a-d | | 3.0 | a-d | | 0.0 | d | | 62.3 | a-d | |
| 9 GWN 10293 (50 WDG) | 60 g ai/a | A | | 3.8 | a | | 80.0 | a | | 91.3 | a | | 2.3 | bcd | | 1.0 | d | | 50.0 | a-f | |
| 10 GWN 10293 (50 WDG) | 60 g ai/a | A | | 1.8 | a | | 66.3 | a | | 67.0 | abc | | 2.3 | bcd | | 0.0 | d | | 30.0 | c-f | |</p>
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<p>| LSD (P&lt;0.05) | 3.73 | 23.98 | 32.06 | 2.46 | 1.95 | 34.77 |
| Standard Deviation | 2.61 | 16.78 | 22.43 | 1.72 | 1.36 | 24.33 |
| CV                  | 145.55 | 23.85 | 47.59 | 51.93 | 76.61 | 45.67 |
| Bartlett's X2       | 2.691 | 21.013 | 33.147 | 6.871 | 6.244 | 34.514 |
| P(Bartlett's X2)    | 1.00  | 0.136  | 0.003* | 0.961 | 0.182 | 0.001* |
| Replicate F         | 0.497 | 1.347 | 0.759  | 8.186 | 1.084 | 1.122 |
| Replicate Prob(F)   | 0.6858 | 0.2704 | 0.5227 | 0.0002 | 0.3648 | 0.3503 |
| Treatment F         | 0.656 | 5.870 | 9.724  | 4.070 | 36.806 | 7.468 |
| Treatment Prob(F)   | 0.8203 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |</p>
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### Purdue University

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**Rating Date**: Jul-2-2014  
**Rating Type**: CONTRO  
**Rating Unit**: %  
**Sample Size, Unit**: 1 PLOT  
**Number of Subsamples**: 1  
**Crop Stage Majority**: V6-V7  
**Pest Stage Majority**: 5-25  
**Pest Density, Unit**: 3 FT2  
**Days After First/Last Applic.**: 57 26  
**Plant-Eval Interval**: 58 DP-1 58 DP-1  
**Days After Emergence**: 51 DE-1 51 DE-1  
**Replicate F**: 0.265  
**Replicate Prob(F)**: 0.70  
**Treatment F**: 19.318  
**Treatment Prob(F)**: 0.0001

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**LSD (P=.05)**: 24.75  
**Standard Deviation**: 17.32  
**CV**: 51.59  
**Bartlett's X2**: 12.303  
**P(Bartlett's X2)**: 108.76  
**Replicate F**: 2.249  
**Replicate Prob(F)**: 0.0949  
**Treatment F**: 0.0981
## GWN 10293 Weed Control Combinations for Corn

**Trial ID:** 14S-THP-CTC-02  
**Protocol ID:** 14S-THP-CTC-02  
**Location:** Throckmorton  
**Study Director:**  
**Project ID:** 10293 Corn  
**Investigator:** Dr. Bill Johnson  
**Sponsor Contact:** Gowan - Alan Helm

### Pest Type
- W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

### Pest Code
- AMBTR, Ambrosia trifida, = US
- IPOHE, Ipomoea hederacea, = US
- SETFA, Setaria faberi, = US
- CHEAL, Chenopodium album, = US

### Crop Code
- ZEAMD, BCOR, Zea mays indentata, = US
- ZEAMX, BCOR, Zea mays, = US

### Rating Type
- CONTRO = control / burndown or knockdown
- PHYGEN = phytotoxicity - general / injury
- PHYDEF = phytotoxicity - deformation (cupping, spinasty, leaf wrap, wrinkling)
- PHYSTU = phytotoxicity - stunting
- PHYBLE = phytotoxicity - bleaching
- PHYLMA = phytotoxicity - leaf malformation
- PHYCHL = phytotoxicity - chlorosis

### Rating Unit
- % = percent
- PLOT = total plot

### Pest Stage Majority
- 14 = 4 true leaves, leaf pairs or whorls unfolded
- YD2 = per square yard
- FT2 = per square foot

### Plant-Eval Interval
- 16 DP-1 = 1 ZEAMD May-5-2014
- 28 DP-1 = 1 ZEAMD May-5-2014
- 38 DP-1 = 1 ZEAMD May-5-2014
- 45 DP-1 = 1 ZEAMD May-5-2014
- 58 DP-1 = 1 ZEAMD May-5-2014