

Nozzle by Adjuvant Interaction - Halex GT.

Trial ID: 11-51W

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 6-8-11

Objectives: Determine the influence and interaction of nozzle type and adjuvant on the efficacy of Halex GT in corn.

Crop 1: ZEAMD Dent corn Variety: P1184HR Description: LL/RR2
 Planting Method: SEEDED Planting Date: 6-8-11
 Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant
 Pest 2 Type: W Code: AMBTR Amaranthus trifida L. ragweed, giant
 Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 4 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. morningglory, ivyleaf
 Pest 5 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 40 FT Tillage Type: REDUCED-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2010

Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 150 LB/A

% OM: 1.8 Texture: SILT LOAM
 pH: 6.5 Soil Name: PIERRON
 CEC: 10 Fert. Level: P1: 56 LB/A, K: 294 LB/A

Application Description

A
 Application Date: 7-10-11
 Time of Day: 13:00
 Application Method: Spray
 Application Timing: 6-8"W
 Application Placement: BROFOL
 Applied By: JRK
 Air Temperature, Unit: 92 F
 % Relative Humidity: 68
 Wind Velocity, Unit: 5 MPH
 Wind Direction: S
 Dew Presence (Y/N): N
 Soil Temperature, Unit: 80 F
 Soil Moisture: ABONOR
 % Cloud Cover: 0

10-7-11
 Crop stage at application: V6
 Height Min, Max (inch): 22 23

Pest Stage At Each Application

7-10-11
 Weed Code: SETFA
 Stage Majority (leaves): 6
 Stage Min, Max: 3 10
 Height Majority: 10 IN
 Height Min, Max: 5 22
 Density, Unit: 1 FT2
 Weed Code: AMBTR
 Stage Majority (leaves): 10
 Stage Min, Max: 8 12
 Height Majority: 18 IN
 Height Min, Max: 8 18
 Density, Unit: 4 FT2
 Weed Code: AMATA
 Stage Majority (leaves): 10
 Stage Min, Max: 4 16
 Height Majority: 12 IN
 Height Min, Max: 1 23
 Density, Unit: 5 FT2
 Weed Code: IPOHE
 Stage Majority (leaves): 8
 Stage Min, Max: 4 12
 Height Majority: 5 IN
 Height Min, Max: 2 7
 Density, Unit: 0.1 FT2
 Weed Code: ABUTH
 Stage Majority (leaves): 5
 Stage Min, Max: 4 6
 Height Majority: 8 IN
 Height Min, Max: 5 20
 Density, Unit: 0.1 FT2

Nozzle by Adjuvant Interaction - Halex GT.

Trial ID: 11-51W

Location: Belleville Res. Center

Application Equipment

| | |
|----------------------------|-------------|
| Appl. Equipment: | CO2 sprayer |
| Nozzle Type: | See |
| Nozzle Size: | comment |
| Boom Length, Unit: | 6.67 FT |
| Spray Volume, Unit: | 10 GPA |

Nozzle by Adjuvant Interaction - Halex GT.

Trial ID: 11-51W

Location: Belleville Res. Center

| | | | | | | | | | | SETFA | SETFA | AMBTR | AMBTR | AMATA | AMATA | | |
|---------|----------------------|-----------|-----------|------|-----------|------------|-----------------|--------------|-----------|---------|---------|---------|---------|---------|---------|--------|--------|
| | | | | | | | | | | ZEAMD | ZEAMD | | | | | | |
| | | | | | | | | | | 7-24-11 | 8-7-11 | 7-24-11 | 8-7-11 | 7-24-11 | 8-7-11 | | |
| | | | | | | | | | | Injury | Injury | Control | Control | Control | Control | | |
| | | | | | | | | | | Percent | Percent | Percent | Percent | Percent | Percent | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 14 DA-A | 28 DA-A | 14 DA-A | 28 DA-A | 14 DA-A | 28 DA-A | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | | | | | | | | |
| 1 | TT 11004 at 40 PSI | | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 97 a | 97 ab | 87 f-i | 91 a-d |
| 1 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 1 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | | | | | | | |
| 2 | AIXR 11003 at 70 PSI | | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 95 a | 99 a | 88 e-i | 92 abc |
| 2 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 2 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | | | | | | | |
| 3 | XR 11004 at 40 PSI | | | | | | | | | 0 a | 0 a | 99 ab | 99 a | 95 a | 98 a | 90 c-h | 93 abc |
| 3 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 3 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | | | | | | | |
| 4 | TTI 11004 at 40 PSI | | | | | | | | | 0 a | 0 a | 98 ab | 98 b | 96 a | 98 a | 82 jkl | 91 a-d |
| 4 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 4 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | | | | | | | |
| 5 | TT 11004 at 40 PSI | | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 96 a | 98 a | 87 g-j | 91 a-d |
| 5 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 5 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | | | | | | | |
| 5 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 6 | AIXR 11003 at 70 PSI | | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 96 a | 95 b | 92 a-f | 92 a-d |
| 6 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 6 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | | | | | | | |
| 6 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 7 | XR 11004 at 40 PSI | | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 90 c | 97 ab | 89 d-i | 91 a-d |
| 7 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 7 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | | | | | | | |
| 7 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 8 | TTI 11004 at 40 PSI | | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 90 c | 98 a | 86 h-k | 86 b-f |
| 8 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 8 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | | | | | | | |
| 8 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 9 | TT 11004 at 40 PSI | | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 96 a | 98 a | 89 c-h | 88 a-e |
| 9 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 9 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | | | | | | | |
| 10 | AIXR 11003 at 70 PSI | | | | | | | | | 0 a | 0 a | 99 ab | 99 a | 96 a | 98 a | 93 a-d | 95 ab |
| 10 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 10 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | | | | | | | |
| 11 | XR 11004 at 40 PSI | | | | | | | | | 0 a | 0 a | 99 ab | 99 a | 96 a | 99 a | 84 i-l | 85 c-f |
| 11 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 11 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | | | | | | | |
| 12 | TTI 11004 at 40 PSI | | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 96 a | 99 a | 88 e-i | 78 f |
| 12 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 12 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | | | | | | | |
| 13 | TT 11004 at 40 PSI | | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 95 a | 99 a | 90 b-h | 91 a-d |
| 13 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 13 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | | | | | | | |
| 13 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 14 | AIXR 11003 at 70 PSI | | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 96 a | 99 a | 95 a | 94 abc |
| 14 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 14 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | | | | | | | |
| 14 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 15 | XR 11004 at 40 PSI | | | | | | | | | 0 a | 0 a | 99 ab | 99 a | 96 a | 99 a | 94 abc | 95 a |
| 15 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 15 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | | | | | | | |
| 15 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 16 | TTI 11004 at 40 PSI | | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 97 a | 99 a | 91 a-g | 77 f |
| 16 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 16 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | | | | | | | |
| 16 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | | | | | |

Nozzle by Adjuvant Interaction - Halex GT.

Trial ID: 11-51W

Location: Belleville Res. Center

| | | | | | | | | | | SETFA | SETFA | AMBTR | AMBTR | AMATA | AMATA | |
|-------------------|----------------------|-----------|-----------|-------|------------|------------|--------------|-----------|--------|---------|---------|---------|---------|---------|---------|--------|
| | | | | | | | | | | ZEAMD | ZEAMD | | | | | |
| | | | | | | | | | | 7-24-11 | 8-7-11 | 7-24-11 | 8-7-11 | 7-24-11 | 8-7-11 | |
| | | | | | | | | | | Injury | Injury | Control | Control | Control | Control | |
| | | | | | | | | | | Percent | Percent | Percent | Percent | Percent | Percent | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 14 DA-A | 28 DA-A | 14 DA-A | 28 DA-A | 14 DA-A | 28 DA-A | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Other Rate | Other Unit | Growth Stage | Appl Code | | | | | | | | |
| 17 | TT 11004 at 40 PSI | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 95 a | 99 a | 95 ab | 96 a |
| 17 | HALEX GT | 4.38 | CS | 1.97 | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 17 | PX 711 | 100 | SL | 0.375 | 0.375 | % v/v | 6-8"W | A | | | | | | | | |
| 18 | AIXR 11003 at 70 PSI | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 95 a | 99 a | 93 a-d | 96 a |
| 18 | HALEX GT | 4.38 | CS | 1.97 | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 18 | PX 711 | 100 | SL | 0.375 | 0.375 | % v/v | 6-8"W | A | | | | | | | | |
| 19 | XR 11004 at 40 PSI | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 94 ab | 98 a | 91 a-g | 91 a-d |
| 19 | HALEX GT | 4.38 | CS | 1.97 | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 19 | PX 711 | 100 | SL | 0.375 | 0.375 | % v/v | 6-8"W | A | | | | | | | | |
| 20 | TTI 11004 at 40 PSI | | | | | | | | 0 a | 0 a | 97 b | 99 a | 95 ab | 99 a | 88 e-i | 88 a-e |
| 20 | HALEX GT | 4.38 | CS | 1.97 | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 20 | PX 711 | 100 | SL | 0.375 | 0.375 | % v/v | 6-8"W | A | | | | | | | | |
| 21 | TT 11004 at 40 PSI | | | | | | | | 0 a | 0 a | 99 a | 99 a | 95 a | 98 a | 87 f-i | 95 ab |
| 21 | HALEX GT | 4.38 | CS | 1.97 | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 21 | PX 711 | 100 | SL | 0.375 | 0.375 | % v/v | 6-8"W | A | | | | | | | | |
| 21 | NIS 90-10 | 100 | SL | 0.25 | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 22 | AIXR 11003 at 70 PSI | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 92 bc | 99 a | 87 g-j | 93 abc |
| 22 | HALEX GT | 4.38 | CS | 1.97 | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 22 | PX 711 | 100 | SL | 0.375 | 0.375 | % v/v | 6-8"W | A | | | | | | | | |
| 22 | NIS 90-10 | 100 | SL | 0.25 | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 23 | XR 11004 at 40 PSI | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 96 a | 98 a | 80 l | 82 def |
| 23 | HALEX GT | 4.38 | CS | 1.97 | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 23 | PX 711 | 100 | SL | 0.375 | 0.375 | % v/v | 6-8"W | A | | | | | | | | |
| 23 | NIS 90-10 | 100 | SL | 0.25 | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 24 | TTI 11004 at 40 PSI | | | | | | | | 0 a | 0 a | 99 ab | 99 a | 96 a | 99 a | 81 kl | 80 ef |
| 24 | HALEX GT | 4.38 | CS | 1.97 | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 24 | PX 711 | 100 | SL | 0.375 | 0.375 | % v/v | 6-8"W | A | | | | | | | | |
| 24 | NIS 90-10 | 100 | SL | 0.25 | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 25 | TT 11004 at 40 PSI | | | | | | | | 0 a | 0 a | 98 ab | 99 a | 96 a | 99 a | 88 d-i | 93 abc |
| 25 | HALEX GT | 4.38 | CS | 1.97 | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 25 | AMS | 100 | SG | 1 | 1 | % w/w | 6-8"W | A | | | | | | | | |
| 25 | NIS 90-10 | 100 | SL | 0.25 | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 26 | AIXR 11003 at 70 PSI | | | | | | | | 0 a | 0 a | 99 a | 99 a | 94 ab | 98 a | 91 a-h | 97 a |
| 26 | HALEX GT | 4.38 | CS | 1.97 | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 26 | AMS | 100 | SG | 1 | 1 | % w/w | 6-8"W | A | | | | | | | | |
| 26 | NIS 90-10 | 100 | SL | 0.25 | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 27 | XR 11004 at 40 PSI | | | | | | | | 0 a | 0 a | 99 a | 99 a | 96 a | 99 a | 91 a-g | 94 ab |
| 27 | HALEX GT | 4.38 | CS | 1.97 | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 27 | AMS | 100 | SG | 1 | 1 | % w/w | 6-8"W | A | | | | | | | | |
| 27 | NIS 90-10 | 100 | SL | 0.25 | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| 28 | TTI 11004 at 40 PSI | | | | | | | | 0 a | 0 a | 99 ab | 99 a | 96 a | 99 a | 93 a-e | 97 a |
| 28 | HALEX GT | 4.38 | CS | 1.97 | 3.6 | pt/a | 6-8"W | A | | | | | | | | |
| 28 | AMS | 100 | SG | 1 | 1 | % w/w | 6-8"W | A | | | | | | | | |
| 28 | NIS 90-10 | 100 | SL | 0.25 | 0.25 | % v/v | 6-8"W | A | | | | | | | | |
| LSD (P=.05) | | | | | | | | | 0.0 | 0.0 | 1.3 | 0.4 | 3.1 | 2.2 | 5.3 | 9.5 |
| Replicate F | | | | | | | | | 0.000 | 0.000 | 1.923 | 0.981 | 0.817 | 3.841 | 3.339 | 2.847 |
| Replicate Prob(F) | | | | | | | | | 1.0000 | 1.0000 | 0.1562 | 0.3815 | 0.4473 | 0.0277 | 0.0434 | 0.0669 |
| Treatment F | | | | | | | | | 0.000 | 0.000 | 0.873 | 0.981 | 2.734 | 1.466 | 4.720 | 2.825 |
| Treatment Prob(F) | | | | | | | | | 1.0000 | 1.0000 | 0.6425 | 0.5076 | 0.0009 | 0.1163 | 0.0001 | 0.0006 |

Means followed by same letter do not significantly differ (P=.05, LSD)

Nozzle by Adjuvant Interaction - Halex GT.

Trial ID: 11-51W

Location: Belleville Res. Center

| | | | | | | | | IPOHE | IPOHE | ABUTH | ABUTH |
|---------|----------------------|-----------|-----------|------|-----------|------------|-----------------|--------------|-----------|---------|---------|
| | | | | | | | | 7-24-11 | 8-7-11 | 7-24-11 | 8-7-11 |
| | | | | | | | | Control | Control | Control | Control |
| | | | | | | | | Percent | Percent | Percent | Percent |
| | | | | | | | | 14 DA-A | 28 DA-A | 14 DA-A | 28 DA-A |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | | |
| 1 | TT 11004 at 40 PSI | | | | | | | | | 70 a | 73 abc |
| 1 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 88 b-e |
| 1 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | 94 ab |
| 2 | AIXR 11003 at 70 PSI | | | | | | | | | 65 abc | 75 abc |
| 2 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 80 ij |
| 2 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | 82 d |
| 3 | XR 11004 at 40 PSI | | | | | | | | | 65 abc | 78 ab |
| 3 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 88 b-f |
| 3 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | 93 abc |
| 4 | TTI 11004 at 40 PSI | | | | | | | | | 63 bcd | 78 ab |
| 4 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 84 e-j |
| 4 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | 88 a-d |
| 5 | TT 11004 at 40 PSI | | | | | | | | | 66 abc | 72 abc |
| 5 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 87 c-h |
| 5 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | 96 a |
| 5 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | |
| 6 | AIXR 11003 at 70 PSI | | | | | | | | | 68 ab | 70 abc |
| 6 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 87 c-h |
| 6 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | 92 abc |
| 6 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | |
| 7 | XR 11004 at 40 PSI | | | | | | | | | 63 bcd | 73 abc |
| 7 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 84 e-j |
| 7 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | 93 abc |
| 7 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | |
| 8 | TTI 11004 at 40 PSI | | | | | | | | | 63 cd | 70 abc |
| 8 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 86 c-h |
| 8 | PX 331 | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 6-8"W | A | | 92 abc |
| 8 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | |
| 9 | TT 11004 at 40 PSI | | | | | | | | | 66 abc | 72 abc |
| 9 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 80 ij |
| 9 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | 85 cd |
| 10 | AIXR 11003 at 70 PSI | | | | | | | | | 67 abc | 73 abc |
| 10 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 84 e-j |
| 10 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | 93 abc |
| 11 | XR 11004 at 40 PSI | | | | | | | | | 64 bc | 73 abc |
| 11 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 82 hij |
| 11 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | 86 bcd |
| 12 | TTI 11004 at 40 PSI | | | | | | | | | 67 abc | 72 abc |
| 12 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 90 bcd |
| 12 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | 92 abc |
| 13 | TT 11004 at 40 PSI | | | | | | | | | 67 abc | 73 abc |
| 13 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 83 f-j |
| 13 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | 95 a |
| 13 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | |
| 14 | AIXR 11003 at 70 PSI | | | | | | | | | 70 a | 77 abc |
| 14 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 92 ab |
| 14 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | 93 abc |
| 14 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | |
| 15 | XR 11004 at 40 PSI | | | | | | | | | 63 bcd | 75 abc |
| 15 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 87 b-g |
| 15 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | 89 a-d |
| 15 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | |
| 16 | TTI 11004 at 40 PSI | | | | | | | | | 66 abc | 68 abc |
| 16 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | 96 a |
| 16 | PX 336 | 100 | SL | 1.25 | % v/v | 1.25 | % v/v | 6-8"W | A | | 91 abc |
| 16 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | |

Nozzle by Adjuvant Interaction - Halex GT.

Trial ID: 11-51W

Location: Belleville Res. Center

| | | | | |
|-------------------|---------|---------|---------|---------|
| Pest Code | IPOHE | IPOHE | ABUTH | ABUTH |
| Crop Code | | | | |
| Rating Date | 7-24-11 | 8-7-11 | 7-24-11 | 8-7-11 |
| Rating Data Type | Control | Control | Control | Control |
| Rating Unit | Percent | Percent | Percent | Percent |
| Rating Timing | | | | |
| Trt-Eval Interval | 14 DA-A | 28 DA-A | 14 DA-A | 28 DA-A |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | | | | |
|---------|----------------------|-----------|-----------|-------|-----------|------------|-----------------|--------------|-----------|----|-----|----|-----|
| 17 | TT 11004 at 40 PSI | | | | | | | | | 66 | abc | 78 | ab |
| 17 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | |
| 17 | PX 711 | 100 | SL | 0.375 | % v/v | 0.375 | % v/v | 6-8"W | A | | | | |
| 18 | AIXR 11003 at 70 PSI | | | | | | | | | 65 | abc | 75 | abc |
| 18 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | |
| 18 | PX 711 | 100 | SL | 0.375 | % v/v | 0.375 | % v/v | 6-8"W | A | | | | |
| 19 | XR 11004 at 40 PSI | | | | | | | | | 63 | bcd | 65 | bc |
| 19 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | |
| 19 | PX 711 | 100 | SL | 0.375 | % v/v | 0.375 | % v/v | 6-8"W | A | | | | |
| 20 | TTI 11004 at 40 PSI | | | | | | | | | 58 | de | 65 | bc |
| 20 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | |
| 20 | PX 711 | 100 | SL | 0.375 | % v/v | 0.375 | % v/v | 6-8"W | A | | | | |
| 21 | TT 11004 at 40 PSI | | | | | | | | | 62 | cde | 72 | abc |
| 21 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | |
| 21 | PX 711 | 100 | SL | 0.375 | % v/v | 0.375 | % v/v | 6-8"W | A | | | | |
| 21 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | |
| 22 | AIXR 11003 at 70 PSI | | | | | | | | | 57 | e | 63 | c |
| 22 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | |
| 22 | PX 711 | 100 | SL | 0.375 | % v/v | 0.375 | % v/v | 6-8"W | A | | | | |
| 22 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | |
| 23 | XR 11004 at 40 PSI | | | | | | | | | 57 | e | 67 | abc |
| 23 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | |
| 23 | PX 711 | 100 | SL | 0.375 | % v/v | 0.375 | % v/v | 6-8"W | A | | | | |
| 23 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | |
| 24 | TTI 11004 at 40 PSI | | | | | | | | | 57 | e | 66 | bc |
| 24 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | |
| 24 | PX 711 | 100 | SL | 0.375 | % v/v | 0.375 | % v/v | 6-8"W | A | | | | |
| 24 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | |
| 25 | TT 11004 at 40 PSI | | | | | | | | | 62 | cde | 70 | abc |
| 25 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | |
| 25 | AMS | 100 | SG | 1 | % w/w | 1 | % w/w | 6-8"W | A | | | | |
| 25 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | |
| 26 | AIXR 11003 at 70 PSI | | | | | | | | | 62 | cde | 73 | abc |
| 26 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | |
| 26 | AMS | 100 | SG | 1 | % w/w | 1 | % w/w | 6-8"W | A | | | | |
| 26 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | |
| 27 | XR 11004 at 40 PSI | | | | | | | | | 62 | cde | 73 | abc |
| 27 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | |
| 27 | AMS | 100 | SG | 1 | % w/w | 1 | % w/w | 6-8"W | A | | | | |
| 27 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | |
| 28 | TTI 11004 at 40 PSI | | | | | | | | | 67 | abc | 80 | a |
| 28 | HALEX GT | 4.38 | CS | 1.97 | lb ai/a | 3.6 | pt/a | 6-8"W | A | | | | |
| 28 | AMS | 100 | SG | 1 | % w/w | 1 | % w/w | 6-8"W | A | | | | |
| 28 | NIS 90-10 | 100 | SL | 0.25 | % v/v | 0.25 | % v/v | 6-8"W | A | | | | |

LSD (P=.05) 5.4 13.6 5.1 8.6

| | | | | |
|-------------------|--------|--------|--------|--------|
| Replicate F | 13.949 | 1.743 | 0.334 | 4.729 |
| Replicate Prob(F) | 0.0001 | 0.1849 | 0.7174 | 0.0132 |
| Treatment F | 3.573 | 0.799 | 4.983 | 1.787 |
| Treatment Prob(F) | 0.0001 | 0.7324 | 0.0001 | 0.0375 |

Means followed by same letter do not significantly differ (P=.05, LSD)

Nozzle by Adjuvant Interaction - Halex GT.

Trial ID: 11-51W

Location: Belleville Res. Center

Trial Comments

1. Protocol: Precision Labs.
2. Ratings: CI/WC at 14 and 28 DAT.
3. Nozzle size and type and spray pressure are per treatment, see treatment list. All applications made at 12 MPH.
4. Mixing instructions: see attached bulk mixing instructions, requires 2.5 gallon containers.