

Headline by Corn Hybrid Evaluation.

Project Code: 06-20A-MMW90 Location: Belleville Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final **Updated:** 10-30-06

Objective:

Evaluate the response of four different corn hybrids to Headline.

Crop 1: ZEAMX corn, field **Variety:** See treatment list
Planting Method: Seeded **Planting Date:** 5-20-06
Rate: 28000 S/A **Depth:** 1.5 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 54 FT **Reps:** 4
Tillage Type: Reduced-Till **Study Design:** Randomized complete block
Previous Crop, Year: GLXMA, 2005
Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Ebbert **% OM:** 2.6 **pH:** 6.1 **CEC:** 13
Texture: Silt loam **Fert. Level:** P1: 78 LB/A, K: 423 LB/A

APPLICATION DESCRIPTION

A
Application Date: 7-18-06
Time of Day: 10:00
Application Method: Spray
Application Timing: VT-R1
Applic. Placement: BROFOL
Air Temp., Unit: 84 F
% Relative Humidity: 92
Wind Velocity, Unit: 2-4 MPH
Soil Moisture: NORMAL

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: ZEAMX R1
Height, Unit: 136 IN

APPLICATION EQUIPMENT

A
Appl. Equipment: CO2 sprayer
Operating Pressure: 50 PSI
Nozzle Type: Flat fan
Nozzle Size: XR 8002
Boom Length, Unit: 5 FT
Spray Volume, Unit: 20 GPA

NOTES:

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Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

| | | | | | |
|----------|---------|---------|---------|---------|---------|
| ZEAMX | ZEAMX | ZEAMX | ZEAMX | ZEAMX | ZEAMX |
| Moisture | Yield | Grey LS | Grey LS | Grey LS | Grey LS |
| Percent | bu/A | % Incid | % Sever | % Incid | % Sever |
| 10-9-06 | 10-9-06 | 8-8-06 | 8-8-06 | 8-29-06 | 8-29-06 |
| | | 21 DA-A | 21 DA-A | 42 DA-A | 42 DA-A |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | ZEAMX Moisture Percent | ZEAMX Yield bu/A | ZEAMX Grey LS % Incid | ZEAMX Grey LS % Sever | ZEAMX Grey LS % Incid | ZEAMX Grey LS % Sever |
|-------------------|----------------|-----------|-----------|-------|-----------|-----------|-----------|----------|-----------|------------------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1 | 33K44 RR | | | | | | | | | 16.3 | 218 | 1 | 1 | 1 | 1 |
| 1 | HEADLINE | 2.09 | EC | 0.098 | lb ai/a | 6 | fl oz/a | VT-R1 | A | | | | | | |
| 1 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | VT-R1 | A | | | | | | |
| 2 | 33P71 CL | | | | | | | | | 16.2 | 187 | 21 | 5 | 28 | 5 |
| 2 | HEADLINE | 2.09 | EC | 0.098 | lb ai/a | 6 | fl oz/a | VT-R1 | A | | | | | | |
| 2 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | VT-R1 | A | | | | | | |
| 3 | 33N56 | | | | | | | | | 15.2 | 194 | 26 | 5 | 49 | 5 |
| 3 | HEADLINE | 2.09 | EC | 0.098 | lb ai/a | 6 | fl oz/a | VT-R1 | A | | | | | | |
| 3 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | VT-R1 | A | | | | | | |
| 4 | DKC 60-17 RR | | | | | | | | | 15.4 | 193 | 26 | 2 | 69 | 4 |
| 4 | HEADLINE | 2.09 | EC | 0.098 | lb ai/a | 6 | fl oz/a | VT-R1 | A | | | | | | |
| 4 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | VT-R1 | A | | | | | | |
| 5 | 33K44 RR | | | | | | | | | 15.9 | 212 | 4 | 2 | 68 | 3 |
| 5 | NONTREATED | | | | | | | | | | | | | | |
| 6 | 33P71 CL | | | | | | | | | 15.6 | 177 | 70 | 8 | 80 | 11 |
| 6 | NONTREATED | | | | | | | | | | | | | | |
| 7 | 33N56 | | | | | | | | | 14.8 | 188 | 70 | 10 | 90 | 15 |
| 7 | NONTREATED | | | | | | | | | | | | | | |
| 8 | DKC 60-17 RR | | | | | | | | | 14.4 | 179 | 70 | 8 | 90 | 40 |
| 8 | NONTREATED | | | | | | | | | | | | | | |
| LSD (P=.05) | | | | | | | | | | 0.44 | 8.6 | 21.1 | 2.5 | 29.3 | 10.2 |
| Replicate F | | | | | | | | | | 1.401 | 2.900 | 4.344 | 0.205 | 7.188 | 2.029 |
| Replicate Prob(F) | | | | | | | | | | 0.2703 | 0.0590 | 0.0157 | 0.8918 | 0.0017 | 0.1407 |
| Treatment F | | | | | | | | | | 19.290 | 24.986 | 17.115 | 14.485 | 10.134 | 13.677 |
| Treatment Prob(F) | | | | | | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

Trial Comments

1. Protocol: BASF.
2. Ratings: DI/DS at 21 + 42 DAT.
3. Yield.
4. Spraying instructions: spray 5 ft wide, center of the plot.
5. Blanket PRE application of Lexar (3.0 qt/A).
6. Grey LS = Gray leafspot. DA-A = Days after VT-R1 application. % Incid = Percent incidence.
 % Sever = Percent severity.
7. Harvested 10-9-06, (2) 30 inch rows by 51 ft.