

## Comparison of Corn Tolerance to Atrazine Premix Products.

01-NF-N100

**OBJECTIVE:** Compare corn response to various atrazine premixes at 1x and 3x use rates.

**SUMMARY:** Corn injury was 3% or less from any treatment at 7, 14, and 56 days after emergence (DAE). At 28 DAE corn injury was 11% from Axiom AT at 7.9 lb/A. However, corn injury from all other treatments at 28 DAE was 3% or less.

Corn yield was not reduced in herbicide treated plots compared to nontreated plots.

### HERBICIDES

AATREX 90 WG  
 AXIOM AT 75 WG  
 BICEP II MAGNUM 5.5 L  
 BICEP LITE II MAGNUM 6 L  
 DEGREE EXTRA 4 L  
 EPIC 58 WG  
 FULTIME 4 SC  
 GUARDSMAN 5 L  
 HARNESS XTRA 5.6 L  
 HARNESS XTRA 6 L  
 PROWL 3.3 EC

### WEEDS

crop tolerance only

### CROP

corn, field

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

## Comparison of Corn Tolerance to Atrazine Premix Products.

Project Code: 01-NF-N100      Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country:            Belleville      IL 62221 USA  
Trial Status: Final                    Initiation Date: 4-19-01**Objective:**Compare corn response to various atrazine premixes at  
1x and 3x use rates.Weed Code      Common Name      Scientific Name  
1. NA      crop tolerance onlyCrop 1:                    ZEAMX    corn, field                    Variety:                    P33G28 LL  
Planting Method: Seeded                    Planting Date: 5-3-01  
Rate:                    28000    S/A                    Depth:                    1.5    IN  
Row Spacing:                    30    INPlot Width, Unit: 10      FT                    Plot Length, Unit: 30      FT      Reps: 4  
Tillage Type: Reduced-Till                    Study Design: Randomized complete block  
Previous Crop, Year: ZEAMX, 2000  
Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 0 LB/ASoil Name: Stoy                    % OM: 1.4      pH: 5.7      CEC: 10  
Texture:    Silt loam                    Fert. Level:    P1: 57 LB/A, K: 197 LB/A**APPLICATION DESCRIPTION**

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Application Date:            5-4-01  
Time of Day:                    7:00  
Application Method:            Spray  
Application Timing:            PRE  
Applic. Placement:            BROSOI  
Air Temp., Unit:                68    F  
% Relative Humidity:            64  
Wind Velocity, Unit:            0      MPH  
Soil Moisture:                    BELNOR**CROP STAGE AT EACH APPLICATION**

A

Crop 1 Code, Stage:            ZEAMX NA  
Height, Unit:                    NA      NA**WEED STAGE AT EACH APPLICATION**

A

Weed 1 Code: NA

**APPLICATION EQUIPMENT**

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Appl. Equipment:                CO2 sprayer  
Operating Pressure:            40 PSI  
Nozzle Type:                    Flat fan  
Nozzle Size:                    8003  
Boom Length, Unit:            7.5    FT  
Spray Volume, Unit:            20      GPA

NOTES: HARVESTED 9-27-01, 2 ROWS X 22 FT.



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Trial Comments

1. Protocol: Syngenta.
2. Blanket application: Liberty 24 oz/A at V5, to all plots, if weeds present, not applied, not needed.
3. DAE = days after emergence.