

No-Till Corn Weed Control Studies

Southern Illinois University

Valent Corn and Soybean Demonstration.

Trial ID: 10-5C

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:** 05-14-10

Objectives: Demonstrate the residual activity of Valent herbicides in corn and soybean.

Crop 1: GLXMA Soybean	Variety: AG 4005	Description: RR
Planting Method: SEEDED	Planting Date: 05-28-10	
Rate, Unit: 75 LB/A	Depth, Unit: 1.0 IN	
Row Spacing, Unit: 30 IN		

Crop 2: ZEAMD Dent corn	Variety: P1184	Description: HR
Planting Method: SEEDED	Planting Date: 05-29-10	
Rate, Unit: 28000 S/A	Depth, Unit: 1.5 IN	
Row Spacing, Unit: 30 IN		

Pest 1 Type: W	Code: ERICA	Conyza canadensis (L.) Crong.	horseweed
Pest 2 Type: W	Code: SETFA	Setaria faberi Herrm.	foxtail, giant
Pest 3 Type: W	Code: AMATA	Amaranthus rudis Sauer	waterhemp, common

Plot Width, Unit: 30 FT	Site Type: FIELD
Plot Length, Unit: 80 FT	Tillage Type: NO-TILL
Replications: 1	Study Design: Randomized Complete Block

Prior Crops, Year

1. GLXMA 2009

Field Prep./Maintenance: Soybean N 0 LB/A, P205 0 LB/A, K20 150 LB/A, Corn N 150 LB/A, P205 0 LB/A, K20 150 LB/A

% OM: 1.6	Texture: SILT LOAM
pH: 7.2	Soil Name: PIERRON
CEC: 7	Fert. Level: P1: 103 LB/A, K: 274 LB/A

Application Description

Application Date: 05-14-10
Time of Day: 14:00
Application Method: Spray
Application Timing: 7DBP
Application Placement: BROFOL
Air Temperature, Unit: 64 F
% Relative Humidity: 76
Wind Velocity, Unit: 0 MPH
Soil Moisture: ABONOR

05-14-10

Crop stage at application: NA
Crop stage at application: NA

Pest Stage At Each Application

Application Date: 05-14-10
Weed Code: ERICA
Stage Majority (leaves): NA
Weed Code: SETFA
Stage Majority (leaves): 3
Stage Min, Max: 1 3
Height Majority: 2 IN
Height Min, Max: 1 2
Density, Unit: 5 FT²
Weed Code: AMATA
Stage Majority (leaves): NA

Application Equipment

Appl. Equipment: CO2 sprayer
Operating Pressure: 30 PSI
Nozzle Type: Flat fan
Nozzle Size: XR 8002
Boom Length, Unit: 10 FT
Spray Volume, Unit: 15 GPA

Location: Belleville Res. Center

LSD (P=.05)

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

Trial Comments

1. Protocol: Valent (Demo).
2. Ratings: CI/WC 42 DAT.
3. Yield to be decided following company tour at about 42 DAT.
4. Blanket POST to be decided following company tour at about 42 DAT.
5. Mixing and spraying instructions; mix size and amounts are for 10 by 80 ft.
Mix (3) two-liter bottles for each 30 by 80 ft plot. Spray 3 passes per plot with a 10 ft boom.
6. Blanket POST application of Roundup Powermax (3 pt/A) was applied 6-25-10.
7. DAP = Days after planting.