

Fierce Demonstration in Corn.

Trial ID: 11-5A

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: 5-27-11

Objectives: Demonstrate the residual weed control from Fierce applied in corn.

Crop 1: ZEAMD Dent corn Variety: DKC 61-21 GENSS Description: RR2/LL
 Planting Method: SEEDED Planting Date: 6-3-11
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant
 Pest 2 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 3 Type: W Code: AMBEL Ambrosia artemisiifolia L. ragweed, common
 Pest 4 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf

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

Prior Crops, Year

1. GLXMA 2010

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

% OM: 1.8 Texture: SILT LOAM
 pH: 6.7 Soil Name: WINFIELD
 CEC: 7 Fert. Level: P1: 86 LB/A, K: 269 LB/A

Application Description

A
 Application Date: 5-27-11
 Time of Day: 9:00
 Application Method: Spray
 Application Timing: 7DBP
 Application Placement: BROFOL
 Applied By: RFK
 Air Temperature, Unit: 57 F
 % Relative Humidity: 78
 Wind Velocity, Unit: 0 MPH
 Dew Presence (Y/N): N
 Soil Temperature, Unit: 64 F
 Soil Moisture: ABONOR
 % Cloud Cover: 100

27-5-11
 Crop stage at application: NA

Pest Stage At Each Application

5-27-11
 Weed Code: SETFA
 Stage Majority (leaves): NA
 Weed Code: AMATA
 Stage Majority (leaves): NA
 Weed Code: AMBEL
 Stage Majority (leaves): NA
 Weed Code: ABUTH
 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

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Pest Code		SETFA	AMATA	AMBEL	ABUTH
Crop Code		ZEAMD			
Rating Date		7-1-11	7-1-11	7-1-11	7-1-11
Rating Data Type		Injury	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent
Rating Timing					
Trt-Eval Interval		35 DA-A	35 DA-A	35 DA-A	35 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0	0	0	0	0
2	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	7DBP	A	0	85	99	99	99
3	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	7DBP	A	0	93	99	99	99
3	AATREX	4	SC	1	lb ai/a	1	qt/a	7DBP	A					

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 at 35 DAT.
3. Blanket burndown at 7 DBP to entire field, use glyphosate + 2,4-D was applied on 5-25-11.
4. 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.
5. Following the PRE application rainfall totals for the first, second and third week were 0.0, 0.0, and 2.51 inch, respectively.