

Agzyme on Corn.

Project Code: 03-20B-N40 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 10-28-03

Objective:

Determine the agronomic benefit of Agzyme nutrient spray in corn production.

Crop 1: ZEAMX corn, field Variety: DKC 60-17 RR
 Planting Method: Seeded Planting Date: 5-24-03
 Rate: 28000 S/A Depth: 1.5 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 25 FT Reps: 6
 Tillage Type: Reduced-Till Study Design: Randomized complete block
 Previous Crop, Year: GLXMA, 2002

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

Soil Name: Ebbert % OM: 1.2 pH: 6.0 CEC: 15
 Texture: Silt loam Fert. Level: P1: 74 LB/A, K: 242 LB/A

APPLICATION DESCRIPTION

A
 Application Date: 5-24-03
 Time of Day: 9:00
 Application Method: Spray
 Application Timing: PPI
 Applic. Placement: BROSOI
 Air Temp., Unit: 60 F
 % Relative Humidity: 50
 Wind Velocity, Unit: 0 MPH
 Soil Moisture: NORMAL

CROP STAGE AT EACH APPLICATION

A
 Crop 1 Code, Stage: ZEAMX NA
 Height, Unit: NA NA

APPLICATION EQUIPMENT

A
 Appl. Equipment: CO2 sprayer
 Operating Pressure: 40 PSI
 Nozzle Type: Flat fan
 Nozzle Size: 8003
 Boom Length, Unit: 10 FT
 Incorporation Equip.: FC2X+CM
 Hours to Incorp.: 1.0
 Incorp. Depth, Unit: 2-4 IN
 Spray Volume, Unit: 20 GPA

NOTES:

Harvested Oct-27-03, (2) 30 inch rows by 21 ft.

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED										30.3	16.4	57.5	172
2	AGZYME	100	LIQ	0.78	PT/A	12.5	FL OZ/A	PPI	A		30.6	16.3	57.7	175
LSD (P=.05)											2.27	0.76	0.43	11.1
Replicate F											0.469	1.268	2.810	6.057
Replicate Prob(F)											0.7595	0.4117	0.1705	0.0546
Treatment F											0.126	0.263	1.884	0.668
Treatment Prob(F)											0.7401	0.6352	0.2418	0.4597

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Trial Comments

1. Protocol: Ag Concepts.
2. Ratings: Corn population at 21 DAP and grain moisture, test weight, and yield.
3. Blanket PRE application of Bicep II Magnum at 3.3 lbai/A applied 10 ft wide to all plots including the nontreated on 5-24-03.
4. Study is weed-free.