

Agzyme on Soybean.

Project Code: 03-22-N20 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 10-27-03

Objective:

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

Crop 1: GLXMA soybean Variety: Asgrow 4403 RR
 Planting Method: Seeded Planting Date: 6-19-03
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 27 FT Reps: 6
 Tillage Type: Reduced-Till Study Design: Randomized complete block
 Previous Crop, Year: ZEAMX, 2002

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 200 LB/A

Soil Name: Clarksdale % OM: 1.7 pH: 5.8 CEC: 12
 Texture: Silt loam Fert. Level: P1: 67 LB/A, K: 235 LB/A

APPLICATION DESCRIPTION

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Application Date: 6-9-03
 Time of Day: 6:00
 Application Method: Spray
 Application Timing: PPI
 Applic. Placement: BROSOI
 Air Temp., Unit: 70 F
 % Relative Humidity: 58
 Wind Velocity, Unit: 0 MPH
 Soil Moisture: NORMAL

CROP STAGE AT EACH APPLICATION

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Crop 1 Code, Stage: GLXMA NA
 Height, Unit: NA 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: 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-18-03, (2) 30 inch rows by 24 ft.

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Weed Code					
Crop Code		GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type		Moisture	Test wt.	Yield	Plants
Rating Unit		Percent	lb/bu	bu/A	000/A
Rating Date		10-18-03	10-18-03	10-18-03	7-10-03
Trt-Eval Interval					21 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED										12.5	56.2	50 228.4
2	AGZYME	100	LIQ	0.78	PT/A	12.5	FL OZ/A	PPI	A		12.5	56.3	52 218.4
LSD (P=.05)											0.47	0.75	2.4 40.16
Replicate F											0.918	0.168	5.187 0.765
Replicate Prob(F)											0.5363	0.9638	0.0475 0.6121
Treatment F											0.030	0.039	2.210 0.417
Treatment Prob(F)											0.8700	0.8512	0.1973 0.5471

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Trial Comments

1. Protocol: Ag Concepts.
2. Ratings: soybean population at 21 DAP and grain moisture, test weight and yield.
3. Blanket application of Roundup WeatherMax 0.75 lbae/A applied at 4-6 inch weeds on 7-7-03.
4. Maintain weed-free all season.
5. DAP = days after planting.