

Headline Adjuvant Evaluation in Corn - Soil Sevice.

Project Code: 07-NF-S-E30 Location: Belleville Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 1-24-08

Objective:

Determine the influence of foliar fertilizers tank-mixed with Headline for foliar applications in corn.

Crop 1: ZEAMX corn, field Variety: 33H27
 Planting Method: Seeded Planting Date: 6-1-07
 Rate: 28000 S/A Depth: 1.5 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 40 FT Reps: 4
 Tillage Type: Reduced-Till Study Design: Randomized complete block
 Previous Crop, Year: GLXMA, 2006
 Field Prep./Maintenance: N 150 LB/A, P2O5 0 LB/A, K2O 100 LB/A

Soil Name: Stoy % OM: 1.9 pH: 6.6 CEC: 11
 Texture: Silt loam Fert. Level: P1: 70 LB/A, K: 282 LB/A

APPLICATION DESCRIPTION**A**

Application Date: 7-27-07
 Time of Day: 11:00
 Application Method: Spray
 Application Timing: VT
 Applic. Placement: BROFOL
 Air Temp., Unit: 82 F
 % Relative Humidity: 86
 Wind Velocity, Unit: 0 MPH
 Dew Presence (Y/N): N
 % Cloud Cover: 50

CROP STAGE AT EACH APPLICATION**A**

Crop 1 Code, Stage: ZEAMX VT
 Height, Unit: 85 IN

APPLICATION EQUIPMENT**A**

Appl. Equipment: CO2 sprayer
 Operating Pressure: 40 PSI
 Nozzle Type: Flat fan
 Nozzle Size: XR 8002
 Boom Length, Unit: 7.5 FT
 Spray Volume, Unit: 20 GPA

NOTES:

Headline Adjuvant Evaluation in Corn - Soil Service.

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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	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Moisture Percent	ZEAMX Yield bu/A	ZEAMX Injury Percent	ZEAMX GLS % Incid	ZEAMX GLS % Sever
1	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	VT	A	17.5 a	201 a	0 a	90 a	1.0 b
1	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	VT	A					
2	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	VT	A	17.4 a	199 a	0 a	90 a	1.0 b
2	LANDOIL	100	LIQ	16	fl oz/a	16	fl oz/a	VT	A					
3	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	VT	A	17.2 a	200 a	0 a	90 a	1.0 b
3	SOIL BOOST PLUS	100	LIQ	16	fl oz/a	16	fl oz/a	VT	A					
4	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	VT	A	17.4 a	205 a	0 a	90 a	1.0 b
4	SOIL BOOST PLUS	100	LIQ	16	fl oz/a	16	fl oz/a	VT	A					
4	LANDOIL	100	LIQ	16	fl oz/a	16	fl oz/a	VT	A					
5	HEADLINE	2.09	EC	0.049	lb ai/a	3	fl oz/a	VT	A	17.3 a	200 a	0 a	90 a	1.0 b
5	SOIL BOOST PLUS	100	LIQ	16	fl oz/a	16	fl oz/a	VT	A					
5	LANDOIL	100	LIQ	16	fl oz/a	16	fl oz/a	VT	A					
6	NONTREATED									16.5 b	196 a	0 a	90 a	3.0 a
LSD (P=.05)										0.61	12.0	0.0	0.0	0.00
Replicate F										8.353	1.494	0.000	0.000	0.000
Replicate Prob(F)										0.0017	0.2566	1.0000	1.0000	1.0000
Treatment F										3.729	0.532	0.000	0.000	0.000
Treatment Prob(F)										0.0215	0.7490	1.0000	1.0000	1.0000

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

Trial Comments

1. Protocol: Soil Service.
2. Ratings: CI/DI/DS at 28 DAT.
3. Yield.
4. Blanket PRE application of Lexar (3 qt/A) plus Aatrex 4L (2.5 pt/A), to all plots 10 ft wide on 6-1-07.
5. DA-A = Days after VT application. GLS = Gray leaf spot.
 % Incid = Percent incidence. % Sever = Percent severity.
6. Harvested 10-10-07, (2) 30 inch rows by 37 ft.