



Applied Research Report

Effect of Headline (6 oz/A) on yield enhancement

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Summary

A trial was conducted with the purpose of determining if applications of a strobilurin fungicide will have an effect on corn yield. The trial was applied by commercial airplane on 9 May 2007 approximately 7-14 days after silking. Treated plots did have the “stay green” effect, however, yield increase was not observed.

Objectives

The objective of this project was to determine if applications of a strobilurine fungicide will have an effect on corn yield.

Materials and Methods

The trial was applied by commercial airplane on 9 May 2007 approximately 7-14 days after silking. Plots were between 80 and 120 rows wide and 1700 feet long.

Treatments were as follows:

- 1) Untreated Control
- 2) Headline (6 oz/A)

Harvest was accomplished with the growers' combine on 15 August 2007, measuring the yield on 8 field length rows. Bushel weight and moisture was also

measured at harvest.

Results

Visual assessments were made of disease occurrence by Dr. Tom Isakeit. While Northern Corn Leaf Blight and Southern Rust were in the field, the levels were relatively low and no differences in disease levels existed between plots.

The treated plots appeared to have the “stay green” effect that has been reported in other trials. However, while the treated plots had a numerical yield increase, this did not prove to be a statistical difference. Thus, no differences were detected for yield as a result of the application of 6 oz/A Headline in this trial.

Table 1. Yield percent moisture and bushel weight for corn treated with Headline and untreated corn (Calhoun County, TX, 2007).

| | Yield bu/ac | Percent Moisture | Bushel Wt lb/bu |
|---------------------|----------------|---------------------|--------------------|
| Untreated | 151.4 a | 12.25 a | 57.5 b |
| Headline 6 oz/A | 157.9 a | 12.40 a | 58.5 a |
| Tukey's HSD (P=.05) | 22.00 | 0.647 | 0.00 |
| Standard Deviation | 1.73 | 0.051 | 0.00 |
| CV | 1.12 | 0.41 | 0.0 |
| Replicate F | 5.832 | 0.928 | 0.000 |
| Replicate Prob(F) | 0.2499 | 0.5120 | 1.0000 |
| Treatment F | 14.005 | 8.638 | 0.000 |
| Treatment Prob(F) | 0.1662 | 0.2088 | 1.0000 |

Means followed by same letter do not significantly differ (P=.05, Tukey's HSD)

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