



ENCOURAGE NANOCAL Improves Corn Vigor and Yield

TARGET: Yield Increase

CROP: Corn, Progeny 5115

TRIAL DATE: May 2 (planted) – Sept. 14, 2019 (harvested)

RESEARCHER: Southern Ag Services

LOCATION: Mantee, MS, USA

TRIAL GOAL

To help determine the proper growth stage and rate at which to make a foliar application of submicronized calcium to corn.

KEY FINDINGS

The best crop response was the result of 1 pint of NANOCAL® applied at V6. It increased the yield 12 bu/acre versus the Halex GT-only treated corn.

APPLICATION

There were four plots in the trial. One untreated check plot, and three that received a 2 qt/acre application of Halex GT herbicide on June 5, 2019. Of these three, one plot received only the Halex GT application while the other two plots received NANOCAL submicronized calcium tank mixed with the herbicide. Both of the NANOCAL plots were treated at the V6 growth stage – one with a 1 pt/acre rate and the other received a 2 pt/acre application.

RESULTS

Both NDVI readings and yield data were collected from the plots.

NDVI: A NDVI reading was done on June 19, 2020. This was 14 DAA at the V6 growth stage. The NANOCAL 1 pt/acre tank mix showed the highest NDVI value of 0.76. The other NANOCAL-treated plot registered a value of 0.75. The untreated check and the plot receiving the Halex GT application only (no NANOCAL) had values of 0.73. All the value differences were significant at the 90% confidence level.

Yield: Correlating with the NDVI results, the highest yield (241 bu/acre) was attained by the plot that received NANOCAL at 1 pt/acre at V6. The next highest yield (235 bu/acre) was the plot treated with NANOCAL at 2 pt/acre at V6. The plot receiving just a Halex GT application yielded 229 bu/acre. The untreated check yielded 227 bu/acre.

Return on Investment: NANOCAL retails at a suggested price of \$48/gallon. The cost of a 1 pt/acre application is \$6. Assuming the price of corn is \$3.80 bushel, the 1-pint application of NANOCAL at V6 had a net return of \$39.60/acre. (241-229 bushels (Halex GT only) x \$3.80/bushel - \$6).

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See page 2 for complete trial results.

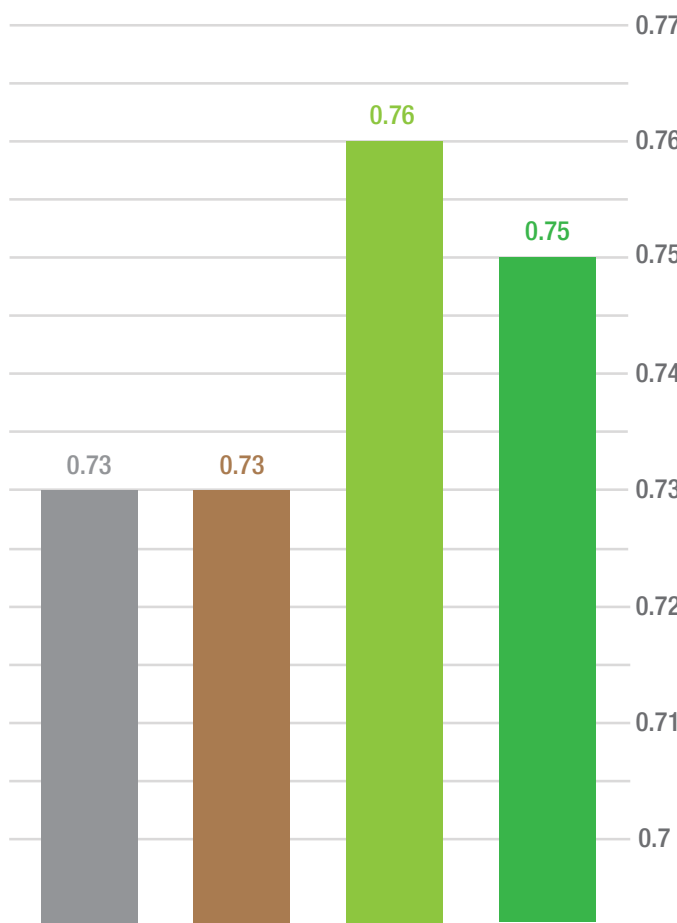


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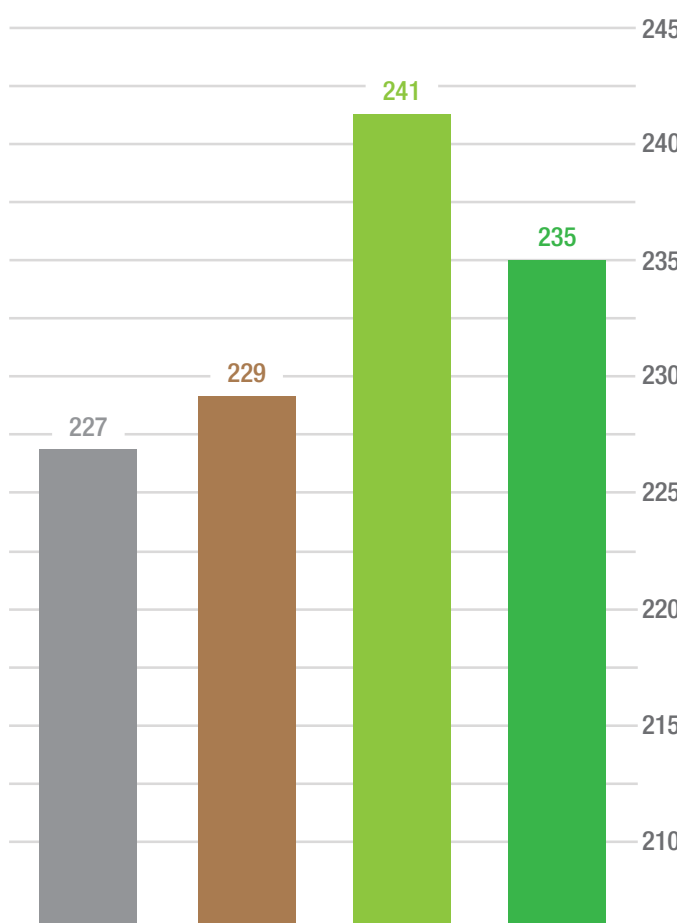
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NDVI COMPARISON



YIELD AT 15% MOISTURE – bushels/acre



- UNTREATED
- Halex GT 2 qt
- Halex GT 2 quarts + NANOCAL 1 pint: Stage V6
- Halex GT 2 quarts + NANOCAL 2 pints: Stage V6