

UTILIZING CLIMATE FIELDVIEW™ NITROGEN MONITORING TOOL

TRIAL OVERVIEW

- Nitrogen (N) is the most vital fertilizer that farmers have to manage in a corn crop.
- Previous crop, growing conditions, product genetics, commodity price, and N cost are factors to consider when determining the highest return for N investment.
- Weather plays an important role in determining how growers manage N. Programs like Climate FieldView™ nitrogen monitoring tool can help farmers in their N decision making process.

RESEARCH OBJECTIVE

Location	Soil	Previous Crop	Tillage Type	Planting Date	Harvest Date	Potential Yield/Acre	Planting Rate/Acre
Monmouth, IL	Silt Loam	Corn	Conventional	05/06/2016	09/26/2016	-	36,000

SITE NOTES:

- A study was established to help understand how Climate FieldView nitrogen monitoring tool can help corn farmers make N decisions on their farm.
- Six different N application treatments were applied to corn products with two replications.
 - Treatment 1: 200 lbs N/acre (32% UAN) applied preplant on May 6, 2016.
 - Treatment 2: 170 lbs N/acre (32% UAN) applied preplant on May 6, 2016 + 30 lbs N/acre applied pretassel to tassel on July 5, 2016.
 - Treatment 3: 200 lbs N/acre (32% UAN) applied preplant on May 6, 2016 + the Climate FieldView nitrogen monitoring tool recommended rate applied at pre-tassel to tassel (Climate FieldView showed a surplus of N at time of application so no additional N was applied)
 - Treatment 4: 100 lbs N/acre (32% UAN) applied preplant + 100 lbs N/acre (32% UAN) sidedressed on June 14, 2016.
 - Treatment 5: 100 lbs N/acre (32% UAN) applied preplant + 45 lbs N/acre (32% UAN) sidedressed on June 14, 2016 (Climate FieldView nitrogen monitoring tool sidedress recommended rate)
 - Treatment 6: 170 lbs N/acre (32% UAN) applied preplant + Climate FieldView nitrogen monitoring tool recommended rate for sidedress or late application, no applications recommended.
- Cost and net profit is based on N cost of \$0.50/lb, sidedress cost of \$8/acre, corn price of \$3.20/bushel.

UNDERSTANDING THE RESULTS

- The highest yielding treatment was not a recommendation from Climate FieldView nitrogen monitoring tool. However, the most profitable N treatment was from a Climate FieldView insight.
- The most profitable application did not require N to be applied during the growing season, saving time and input cost by using Climate FieldView nitrogen monitoring tool.
- Two of the three nitrogen treatments that were Climate FieldView insights still reached a high yield and had the most profitability.

WHAT DOES THIS MEAN FOR YOUR FARM?

- Climate FieldView nitrogen monitoring tool provided the most profitable treatment in this trial.
- Climate FieldView nitrogen monitoring tool will continue to be analyzed to see how the program can benefit farmers with preplant and in-season N application decisions.

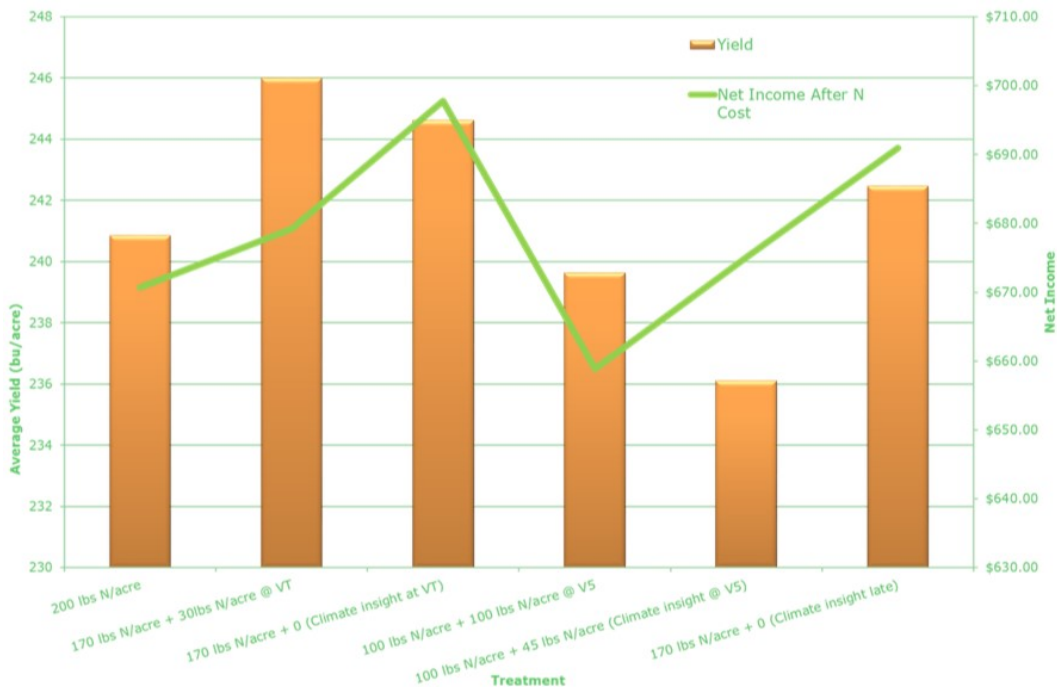


Figure 1. Average yield and net income of different nitrogen treatments.

LEGAL STATEMENT

For additional agronomic information, please contact your local brand representative.

Developed in partnership with Technology, Development & Agronomy by Monsanto.

Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. All other trademarks are the property of their respective owners. ©2016 Monsanto Company. 161107085125 11092016CRB.