

# Corn Nutrition at VT

4L/Ac Katalyst<sup>®</sup>  
½ L/Ac Actagro B 2.5%

## Application Benefits:

- **Targeted Growth Timing Application for –**
  - Pollination/Grain Fill & Test Weight
    - Provides necessary Macro & Micro nutrient nutrition for extremely high plant demand for K+ at this growth stage
    - Supplementation of K during peak crop need
    - Support for addressing low K levels
- **Katalyst<sup>®</sup> 0-0-25 Complexed Actagro Organic Acids<sup>®</sup>:**
  - Transportation of carbohydrates & sugars in the plant made by P
  - Improves crops ability to heat & cool itself
  - Aids in starch accumulation in the grain
  - Reduced lodging – stronger stalks
- **Boron 2.5%:**
  - Cell Division
  - Movement of sugars within the crop
  - Pollen tube development, health, and formation
  - Aids in pollination & kernel set
- **The Goal of Foliar VT Treatment –**
  - Enhanced yield potential at this growth stage
  - Application timing to affect pollination & fill
  - Increased plant health, pollination, kernel/grain fill
  - Potential yield effect 15–30+ bu/ac

## VT Corn – Final Piece of the Production Puzzle

When corn enters into the tasseling stage, crop development, nutrient demand & nutrient usage are near peak levels. Corn's demand for N, P & K are very high from this point to Relative Maturity (RM). These and other key nutrients are extremely important for maximum yield opportunity. Much of the crops overall yield potential is determined much earlier in the season by the V5-V7 stage of development. If we have done a good job of early and progressive plant establishment, the opportunity for greater top end yield is even higher when applying a foliar nutritional at VT Stage. VT Stage to RM is where pollination and grain fill take place, thus utilizing & requiring added nutrients to aid added yield opportunity. If there is a shortage of nutrients such as K, this will greatly impact potential yield opportunity that can be achieved at this stage of growth.

At the VT Stage of growth K & B are vitally important to efficient and effective pollination and subsequent grain fill at maturity. Additionally, important are P & Zn. Based up on the crops demand for these nutrients; it would be in your best interest to consider the supplemental applications of N-P-K, Zn & B to finish out the crop in preparation for harvest.

For accomplishing yield impacting opportunity late in the season, we recommend the use of **Katalyst<sup>®</sup>, Actagro B 2.5% and Actagro Zn 6.5%**.

- **Katalyst analysis is 0-0-25** complexed with Actagro Organic Acids<sup>®</sup> Technology to greatly enhance nutrient absorption and efficiency within the plant at specific prescribed stage of growth, when the crop shifts from vegetative to reproductive growth stage.
  - The K<sub>2</sub>O in Katalyst<sup>®</sup> is the mechanism nutrient for transport of water & nutrients into and throughout the plant. Additionally, adequate/abundant K levels will help the crop regulate its ability to heat & cool itself. K<sub>2</sub>O also aids in helping to drive sugars and aid in overall stalk strength and standability – less lodged corn.
- Actagro Boron 2.5%
  - pollen germination, pollen tube growth,
  - Metabolic pathway functions – production and movement of carbohydrates & proteins
- Actagro Zn 6.5% -
  - Important for directional flow of water and nutrients where they need to go.
  - Hastens maturity (in conjunction with Phosphorus) and dry down for drier crop at harvest providing potential cost savings at the dryer.

\*All Actagro Product are complexed with the Actagro Organic Acids<sup>®</sup> Technology Platform providing additional benefit to more complete absorption, translocation and use efficiency of nutrients being applied.