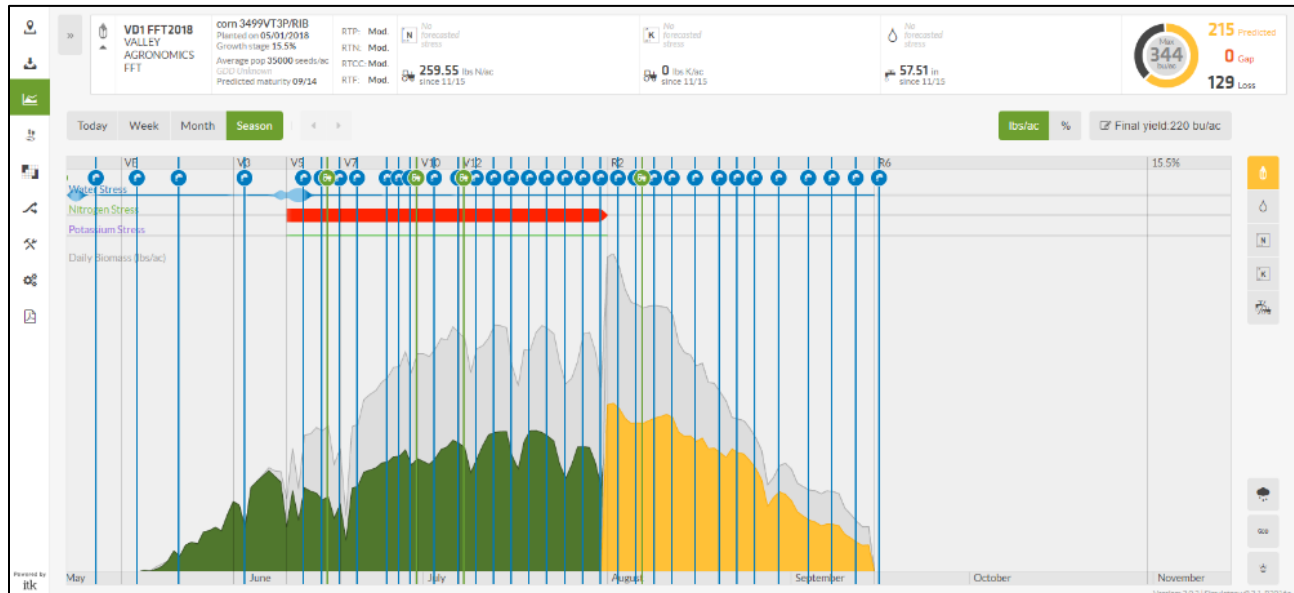# Field Forecasting Tool (FFT)

The R7® Field Forecasting Tool is a new web-based crop model that uses field-specific information, as well as data from the Answer Plot® Program and NutriSolutions® system, to simulate daily corn crop growth and development.

Utilize the FFT tool to aid with in-season decision making to maximize ROI (return on investment) from nutritional inputs by combining it with tissue analysis and monitoring biomass production. In 2018, six out of six trials showed a lack in biomass production starting at the V5 growth stage. Pictured above in the FFT chart, the green indicates biomass attained, while the grayed portion shows the potential. To gain more of this potential in 2019, plan to start early with tissue sampling and nutrient applications starting at V5. Then develop a plan utilizing FFT to run different scenarios to see which nutritional program maximizes the ROI.
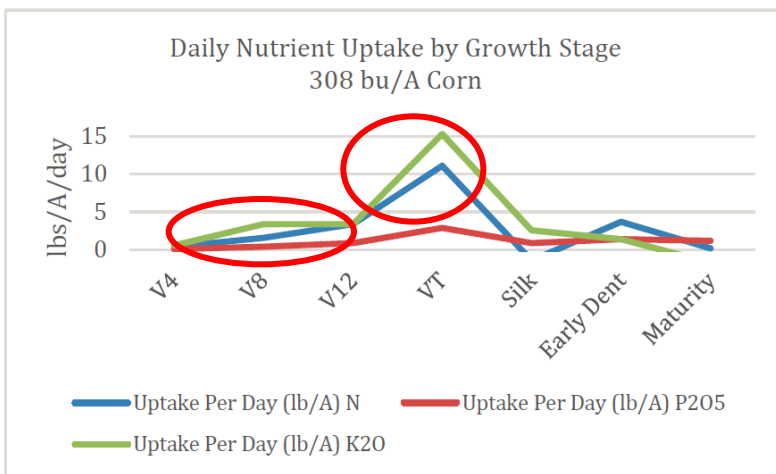
(R. Flannery, Rutgers U.)

Not only is the V12-VT and on toward silking critical for nutrient uptake and yield production, but also early on from V5-V12. An in-adequate nutrient foundation can result in a loss of potential yields. In 2018, 159 tissue samples were taken on corn. Nitrogen was found to be deficient from V5-V14 on 82% of the samples.

Years of agronomic research have shown that each crop has different nutrient demands depending on its growth stage. When determining an appropriate strategy for nutrient management this has proved to be very important. Plants have access to more balanced nutrition all season long when plants are managed based on crop-specific nutrient needs and growth stages. Putting this knowledge into practice helps improve nutrient status, optimize yields and maximize ROI.

Talk with your local trusted advisor today about how using tissue sampling and the Field Forecasting Tool can help you plan your nutrient management to drive higher yields in 2019.