

The R7<sup>®</sup> Field Forecasting Tool is a crop model offering from WinField United that uses field-specific information, as well as data from the Answer Plot<sup>®</sup> program and Nutrisolutions<sup>®</sup> system, to simulate daily crop growth and development. This better enables or better positions you to predictively determine optimal timing and rates for nutrient and water applications in-season.

# UTILIZE IN-SEASON MEASUREMENTS



FFT measures:

- Plant biomass accumulation
- Water, nitrogen and potassium stressors
- Rainfall amounts
- Growing Degree Days
- Solar Radiation

These factors all play a role in growth rates and overall plant health.

# BOOTS ON THE GROUND APPROACH



FFT takes into account ground truth measurements taken by the user to help improve accuracy of the model. Nutrisolutions tissue samples calibrate the nitrogen and potassium levels and give users a better look at other potential nutrient deficiencies in the plant. Rainfall, plant population and growth stage adjustments can also be made by the user to help improve accuracy.

# IN-SEASON APPLICATION DECISIONS

	02/04	02/06	02/08	02/10	02/12	02/14	02/16	02/18	02/20
Product Cost 0.2 \$/N	\$ 0.00	+7.00	+7.00	+6.00	+5.00	+4.00	+3.00	+2.00	+1.00
Application Cost \$ 5.00/ha	\$ 0.00	+16.00	+15.00	+13.00	+11.00	+9.00	+7.00	+5.00	+3.00
Selling Price 3.6 \$/bu	\$ 0.00	+22.00	+20.00	+18.00	+16.00	+14.00	+12.00	+10.00	+8.00
ROI	\$ 0.00	+5.00	+4.00	+3.00	+2.00	+1.00	+0.00	-1.00	-2.00

Will additional nutrient applications pay? The multiple scenario chart in FFT allows users to look at a range of application dates and rates to determine when a potential nutrient application will have a positive ROI.

**R7<sup>®</sup> Field Forecasting**  
By WINFIELD UNITED

# MINIMIZE THE YIELD GAP



FFT helps users recognize the yield potential of their fields. Maximum yield represents the potential of the field without any stressors according to the model. Predicted yield is modeled based off what the user has entered for applications on the field, along with stressors factored in. GAP yield is the most important number to focus on and includes the “opportunity bushels” still available to be captured during the current growing season.

FFT helps users determine what applications can be made (water, nitrogen and/or potassium) to help capture those “opportunity bushels and increase field ROI.