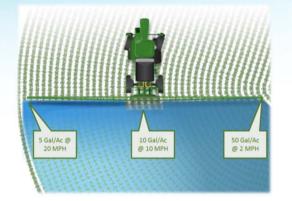
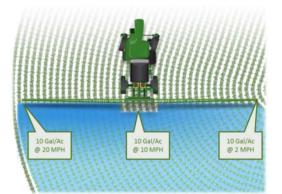
# TECHNOLOGY THAT PAYS





#### Increased Resolution Results in Increased ROI

Capability	Value
Automated Section Control	Potential of 15 – 20% input savings over manual section control
Individual Nozzle Control (INC)	Potential of 2 – 5% additional savings over Automated Section Control
INC + PWM Control	Curve Compensation capabilities reduce over & under application on curves
Auto Nozzle Switching Capabilities	Increased rate and speed range
Increased PWM Hertz	Improved rate range without skip risk













### TECHNOLOGY THAT PAYS



- ➤ Section Control is the first level of automation technology that delivers immediate RIO
- > PWM Nozzle Control enables more precise rate control at a nozzle by nozzle resolution
- ➤ PWM Nozzle Control enables a sprayer boom to perform curve compensation, reducing over application on the inside of the curve (phytotoxicity) and under application on the outside of the boom (escapes)
- ➤ Curve Compensation on planter works the same way to provide a consistent rate through curves
- > Improved PWM frequency reduces risk of skips











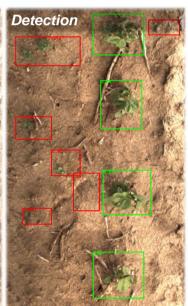


### TECHNOLOGY THAT PAYS



Expanding You Toolbox Provides New Intelligence









- ➤ Up to 90% Herbicide Savings
- ➤ Improved
  Weed Control
- ➤ Environmental Responsibility
- FutureCapabilities













# TECHNOLOGY THAT PAYS



### In-Field Sensors Provide Real-Time Data and Actionable Insights

Sensors	Decision Opportunities
Temperature & Relative Humidity (RH)	Evapotranspiration, Chill hours, Degree days, Frost alert
Wind speed & direction	Evapotranspiration, Spray, Disease modeling
Rain gauge	Field condition, Irrigation scheduling
Leaf wetness	Disease modeling, Spray timing
Solar radiation	Evapotranspiration
Moisture Probe	Field condition, Irrigation scheduling, Stress Management













### TECHNOLOGY THAT PAYS



- ➤ Few decisions can be made inseason that will drive actions to directly impact ROI
- Leveraging in-field sensors may provide the highest resolution, real-time data
- Decisions should be based on Intelligence
- Intelligence must be derived from proper analysis of multiple, accurate pieces of information













# TECHNOLOGY THAT PAYS



Precise Application Data Enables Optimal Nutritional Placement



Feature	Detail
Nutrients Detected	Nitrogen, Ammonium-N, Phosphate, Potassium, Dry Matter
Detection Frequency	>4000 times per second
Target	Product can be applied based on a target rate for one nutrient and a limit rate for a second nutrient
Control	Tractor Speed Control + Flow Control (on compatible models)
Documentation	2630 Display, 4600 Display, 4640 Display, John Deere Operations Center













### TECHNOLOGY THAT PAYS



- ➤ Deliver targeted rate of a specific nutrient without exceeding a secondary
- ➤ Determine site specific mineral requirements remaining for the optimal nutritional profile
- ➤ Manage variability between loads and provide detailed data for records without requiring samples
- ➤ Provides documentation of manure quality as opposed to quantity









