

VARIABLE RATE NITROGEN

Central Valley Ag's ACS team can provide you with many advantages when it comes to Variable Rate Nitrogen. Nitrogen rates are determined by yield potential, and ACS specialists analyze multiple data sources to develop a "foot by foot" Variable Yield Goal for each field. We develop a customized Nitrogen rate algorithm based on yield potential, Nitrogen credits and the soils ability to hold and to release N. Grower input on high and low yield areas, minimum and maximum N rates and application method is incorporated into this prescription. An ACS prescription may have as many as 10 to 12 different N rates, depending on the variability in the field and the range of minimum and maximum N rates established. Matching N rates in high and low yield areas to yield potential results in higher average yield, improved stalk quality and reduced N cost per bushel.

THERE ARE MANY THINGS TO CONSIDER WHEN IT COMES TO VARIABLE RATE NITROGEN

YIELD POTENTIAL

Even when all fertility levels are sufficient, crop yields are not uniform across the field.

YIELD + NITROGEN

As crop yield potential increases, N requirements increase until the productive capability of the soil is reached.

ECONOMICAL

Economic return is maximized when yield increases from higher N rates no longer cover the cost of the additional N.

MATCHING

VR Nitrogen Rx developed by ACS specialists match N rates to yield potential in every area of the field.

MAXIMIZE YIELD

Often areas with high yield potential require less N per bushel than areas with lower yield potential.

DID YOU KNOW?

- ACS specialists have been writing VR Nitrogen Rx commercially since 2010, and began the development of these concepts in 2007.
- ACS specialists have written VR Nitrogen Rx on more than 100,000 acres since introduction of the program.
- ACS utilizes Geographic Information System software to evaluate, compare and analyze more than 26,000 data points per acre on each input layer.
 - For an average field, the VR Nitrogen Rx is the product of analyzing more than 250,000 pieces of information.
- When compared to a VR Nitrogen application, a flat rate Nitrogen application may over apply as much as 30 lbs. per acre and under apply by as much as 50 lbs. per acre, increasing environmental risk and reducing yield.