

## Variable Rate Liquid Fertilizer on Corn

### EXPERIMENT INFO

Planted: 05/22/2016

Harvested: 10/31/2016

Hybrid: A6757G8 with Acceleron 250

Population: 30,000 seeds/ac

Row Width: 30"

Prev. Crop: Soybeans

Plot Size: 12 rows x 1,560'

Sidedress: 06/17/2016 (40 GPA 28% UAN + 1.5 L/ac eNhance)

### SOIL DATA

pH: min: 5.8; max: 7.5

CEC: min: 4.2; max: 8.2

% OM: min: 1.4; max: 2.4

% P: min: 9; max: 21

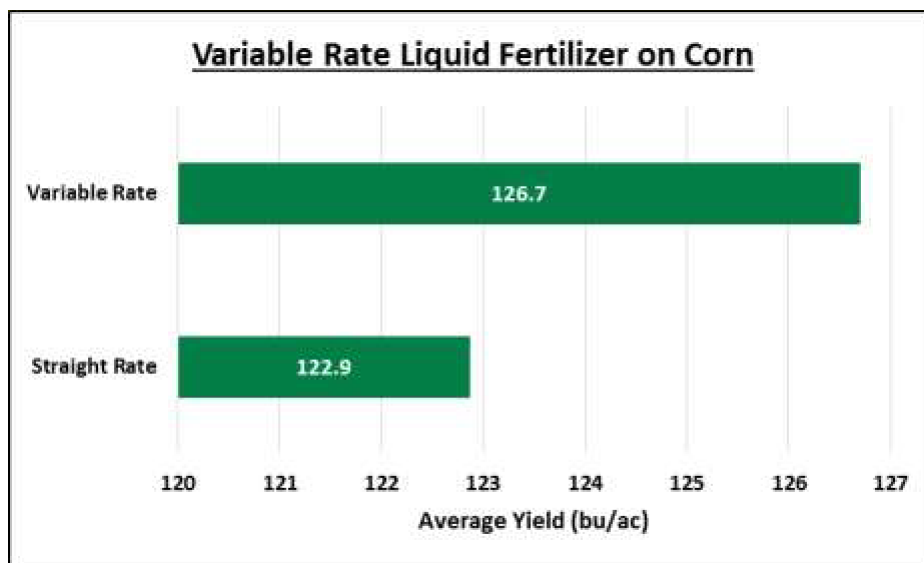
% K: min: 1.9; max: 4.1

% Mg: min: 10; max: 18.2

% Ca: min: 58.5; max: 81.2

### Objectives:

Here at ARF, our foremost concern is responsible nutrient management. Each application is made with the "T.R.U.S.T" (Test, Rate, Usability, Sustainable, & Timeliness) philosophy. AgroLiquid fertilizers are manufactured in such a way so as to allow the custom blending of individual products in virtually any combination to meet the specific needs of the crop. Variable rate liquid fertilizer application allows us to apply the right rate of fertilizer in the right place.



\* In the Variable Rate treatments, varying rates of the following products were applied as per the soil test zones:  
Pro-Germ + Sure-K + eNhance + Zinc

\*\*Straight Rate Check as per the soil test consisted of:  
3 GPA Pro-Germ + 4 GPA Sure-K + 1 L/ac eNhance + 1 L/ac Zinc

### Conclusions:

The variable rate fertilizer application resulted in a yield advantage of 3.8 bu/ac. These application rates and nutrients were generated based on zone soil sampling. The variable rate program ensures the right rates are applied in the right places.

Last year, we had a higher yield response with the variable rate fertilizer application on a different farm. There is greater soil variability in last year's field, as opposed to this year's field.

We'll look forward to seeing the results on the next farm in 2017.