

**Experiment Info:**

Planted:	5/7
Variety:	DKC53-78
Population:	4
Row Spacing:	30"
Previous Crop:	Soybeans
Plot Size:	15' x 210'
Replications:	4
Potash:	Fall 2012
PPI:	5/2, 5/6
Sidedress:	6/8
Harvested:	10/15

**Soil Test Values (ppm):**

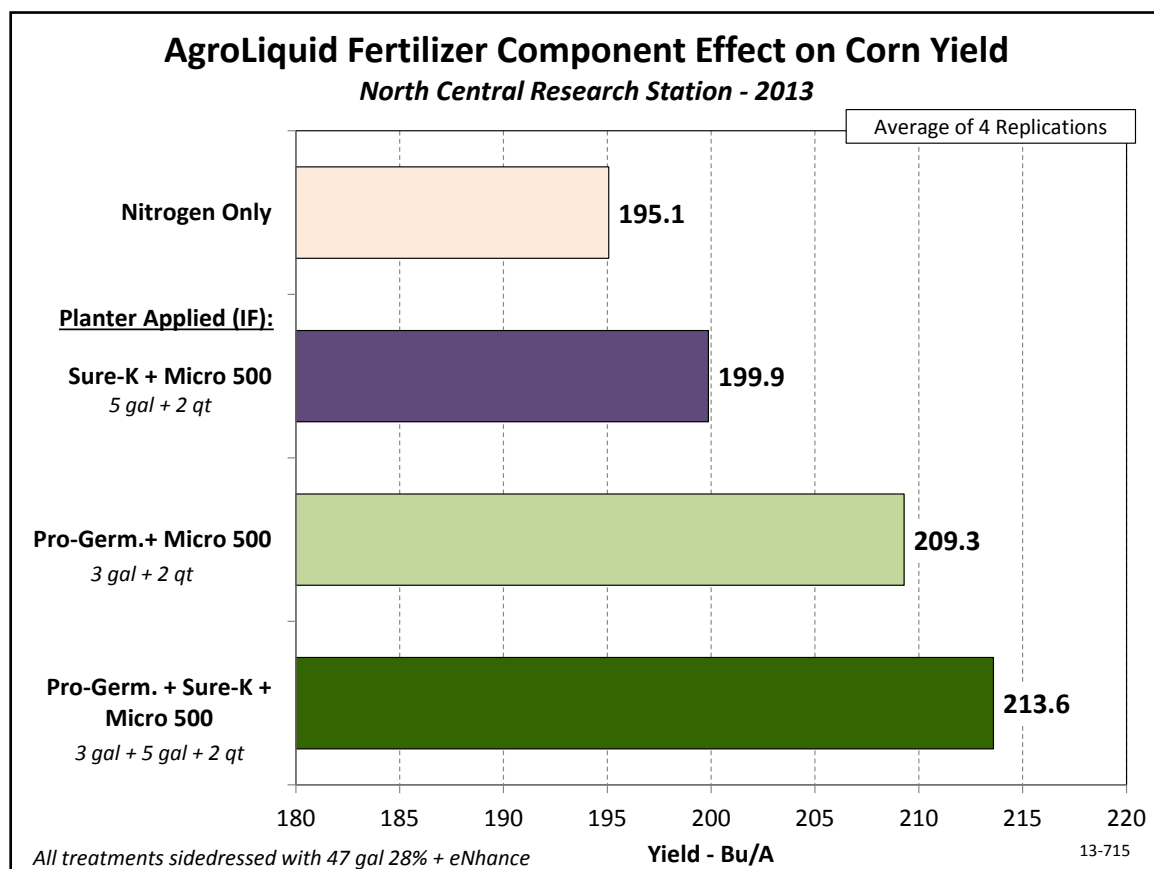
pH:	7
CEC:	12.4
% OM:	3.4
Bicarb P:	17
K:	111
S:	5
% K:	2.3
% Mg:	21.4
% Ca:	75.9
%H:	0
% Na:	0.4
Zn:	1.5
Mn:	4
B:	0.7

Yield Goal:	175bu
Target Fertilizer Rate:	175-30-60

**Objective:**

Evaluate the yield effects of the different AgroLiquid program components.

According to a soil test for 175 bu/A corn, a fertilizer program of 180-30-60-2 Zn was developed for this fertilizer component experiment. Following this, a planter fertilizer program of 3 gal/A Pro-Germinator, 5 gal/A Sure-K and 2 qt/A Micro 500 was made. To determine the importance of a complete fertilizer program and evaluate the value of each program component, two treatments were compared to the complete program. One treatment removed the Pro-Germinator from the program where the second removed the Sure-K. All treatments were applied in-furrow with a tube that placed fertilizer in the seed trench. Treatments were also all sidedressed with 47 gal/A 28% + eNhance, 30 days after planting. Treatment yields appear in the following chart.



LSD (0.2): 7.2 CV: 6.6%

**Conclusions:**

- All treatments including the nitrogen only, exceeded the 175 bu/A yield goal. The location of this experiment is a highly productive soil, and has historically produced high yielding corn and soybeans.
- The fertilizer program containing only Sure-K and Micro 500 yielded about 200 bu/A, 5 bu/A higher than the nitrogen only.
- The treatment with Pro-Germinator and Micro 500 increased corn yield nearly 15 bu/A over the nitrogen only treatment.
- Highest yield was achieved with the complete fertilizer program with a yield of over 213 bu/A. This verifies the importance of each fertilizer program component. In order to achieve top corn yield, all nutrients must be added to the program at the proper rates.