



# Corn Nitrogen Source and Methods of Application ( 17-710 )

## Experiment Info:

Planted:	5/16/2017
Harvest:	11/8/2017
Yield Goal:	170 bu/A
Target Fert.:	191-48-48
Variety:	DKC 52-68
Population:	33,000
Row Width:	30"
Prev. Crop:	Soybeans
Plot Size:	15 x 255
Replications:	4

## Soil Test Values (ppm):

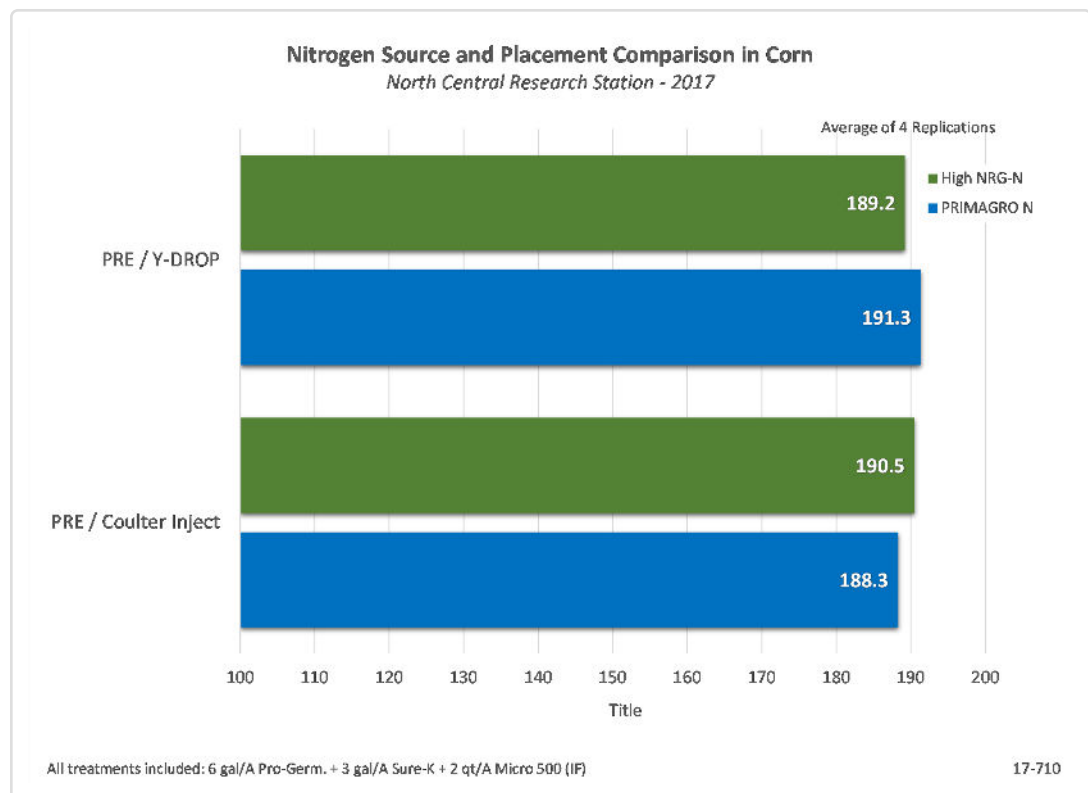
pH:	6
CEC:	11.9
%OM:	2.6
Bray P1:	18
Bicarb P:	
K:	116
S:	7
%K:	2.5
%Mg:	16.5
%Ca:	65.8
%H:	14.9
Zn:	1.3
Mn:	7
B:	.5

## Objective:

To compare High NRG-N and PRIMAGRO N sources at different methods of application for their effects on corn yields.

The addition of PRIMAGRO N to the AgroLiquid lineup offers a faster acting nitrogen source. PRIMAGRO N is a fast acting 30% nitrogen fertilizer containing sulfur.

All nitrogen treatments were applied at the equivalent rate of 191 lbs N/A. This was 45 gal/A of High NRG-N and 44 gal/A of PRIMAGRO N. Both sources of nitrogen were split applied with 33% applied as a broadcast pre-emerge application and the remaining 67% applied as either a Y-Drop or coulter inject method. Sidedress applications were made at growth stage V5.



LSD(0.2)7.3, CV:9.4%

## Conclusions:

- The application of PRIMAGRO N using 360 Yield Y-Drops resulted in 2.1 bu/A advantage over the similar High NRG-N application. Conversely the High NRG-N resulted in a 2.2 bu/A advantage using the coulter inject method.
- High NRG-N and PRIMAGRO N provided similar yields in both application methods proving both sources are delivering equal rates of efficient nitrogen to the plant.