

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):

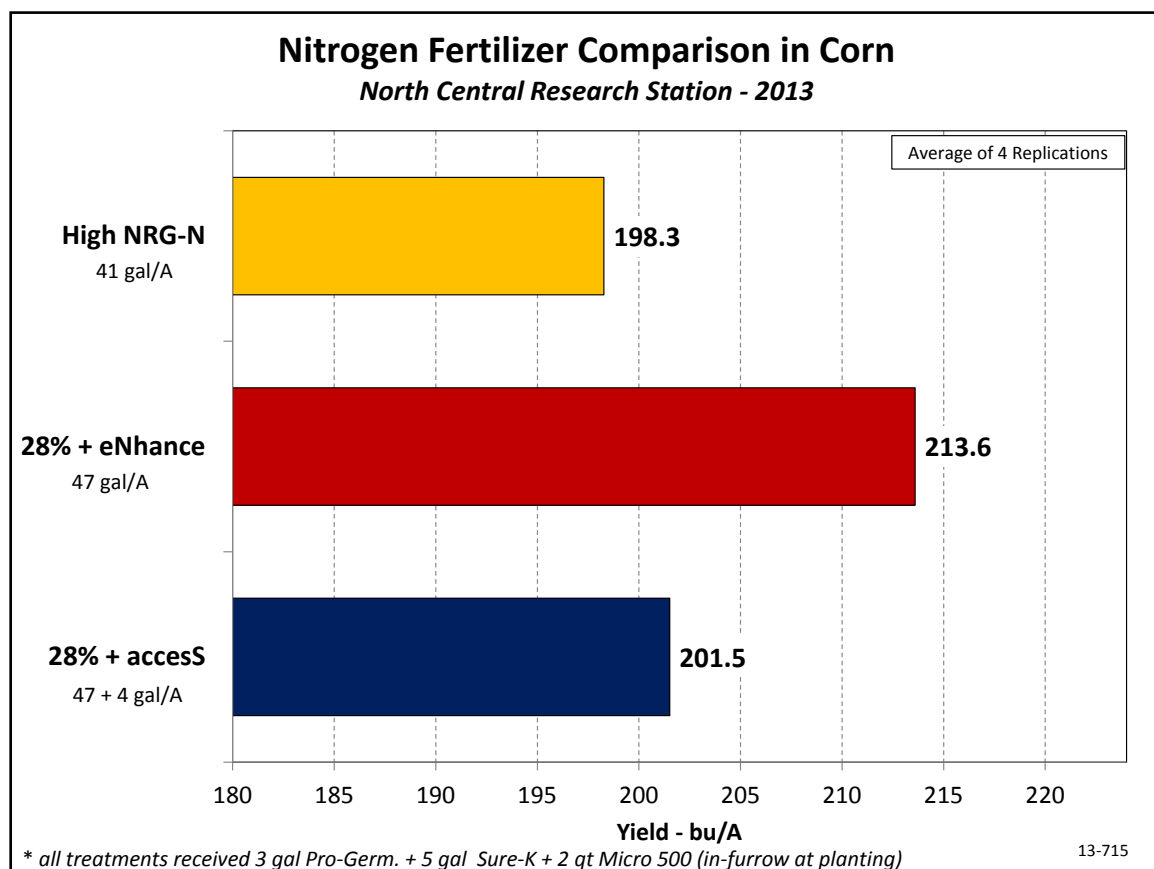
pH:	7.0
CEC:	12.4
% OM:	3.4
Bicarb P:	17
K:	111
S:	5
% K:	2.3
% Mg:	21.4
% Ca:	75.9
%H:	0
% Na:	0.4
Zn:	1.5
Mn:	4
B:	0.7

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

Objective:

Compare different nitrogen source inputs for corn.

This experiment is intended to follow similar fertilizer programs over time in a corn/soybean rotation. Nitrogen recommendation of 180 lb/A was set to reach a yield goal of 175 bu/A. This is a very productive soil, where yields the past two seasons have exceeded expectations and 2013 was no different. Within this experiment were three different AgroLiquid nitrogen treatments that are actually applying much less than the 180 lb that is the standard for this test. The treatments were: 41 gal/A of High NRG-N (126 lb-N/A), 47 gal/A of 28% with eNhanse (141 lb of N/A) and 47 gal/A of 28% with 4 gal/A access (141 lb N/A). All treatments received the same planter fertilizer program to allow for comparison of N treatment effects. The yields appear in the following chart.



Conclusions:

- Highest yield came from 28% + eNhanse, which provided a yield of 213.6 bu/A. 28% + accesS provided the same amount of nitrogen per acre, however does not provide the same efficiency of nitrogen as 28% + eNhanse, therefore was not able to provide the same yield response.
- Because the yield goal of 175 bu/A was exceeded, the lower actual rates of N in High NRG-N did not allow for above and beyond yield compared to the other N sources. However, excellent yield of 198.3 bu/A was reached.