

Experiment Info:

Planted:	5/3
Variety:	DKC53-78
Population:	37,000
Row Spacing:	30"
Previous Crop:	Soybeans
Plot Size:	15' x 255'
Replications:	4
PRE:	5/4
Urea:	5/7
Harvested:	10/23

**Soil Test Values
 (ppm):**

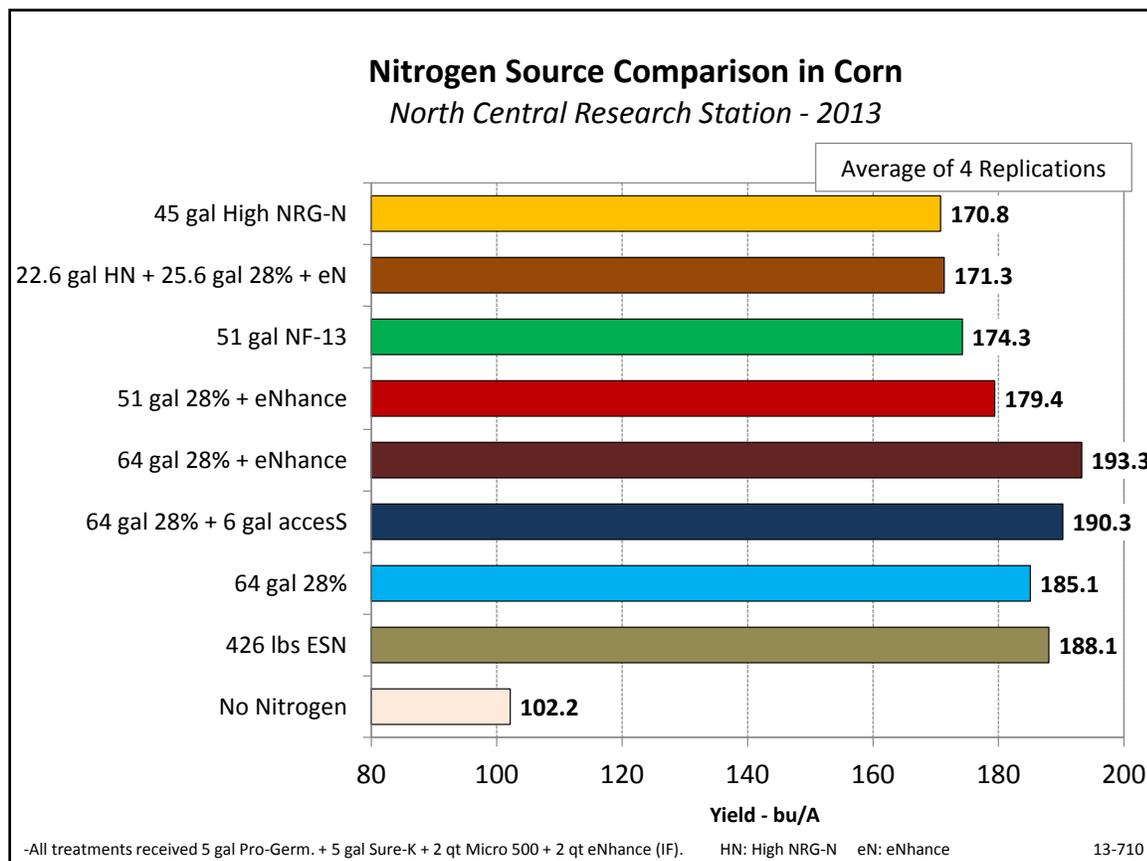
pH:	6.5
CEC:	14.2
% OM:	2.5
Bray P1:	14
K:	109
S:	11
% K:	2.0
% Mg:	18.5
% Ca:	71.4
%H:	7.6
% Na:	0.5
Zn:	1.0
Mn:	4
B:	0.4

Yield Goal:	175 bu
Target Fertilizer Rate:	192-70-70

Objective:

To evaluate the effectiveness of different nitrogen sources applied broadcast on corn.

This experiment compared pre emergence broadcast applications of different nitrogen solutions in a corn crop. Applications were made the day following planting. All sources were applied at the recommended rate to provide 192 lbs of equivalent nitrogen per acre for a yield goal on 175 bu/A. AgroLiquid products were High NRG-N, 28% + eNhance, 28% + accesS, a combination of High NRG-N and 28% + eNhance and an experimental product NF-13. These products were compared to conventional products 28% and ESN urea. Yields appear on the chart below.



Conclusions:

- All nitrogen solutions nearly reached the yield goal and greatly increased yield over the no nitrogen treatment.
- Highest yield was achieved with the full rate of 28% with the addition of eNhance, yielding 193 bu/A which was significantly higher than the same rate of 28% UAN without eNhance.
- The addition of 6 gal of access to 28% added 5 bu /A to the overall yield.
- Nitrogen sources that applied less actual nitrogen per acre, reached yield goal, but were not able to provide additional yield than the higher nitrogen rates.