

Experiment Info:

Planted:	5/2
Variety:	DKC53-78
Population:	40,000
Row Spacing:	30
Previous Crop:	Soybeans
Plot Size:	15'x180/210/130
Replications:	5
Sidedress:	6/8
Harvested:	10/16

Soil Test Values (ppm):

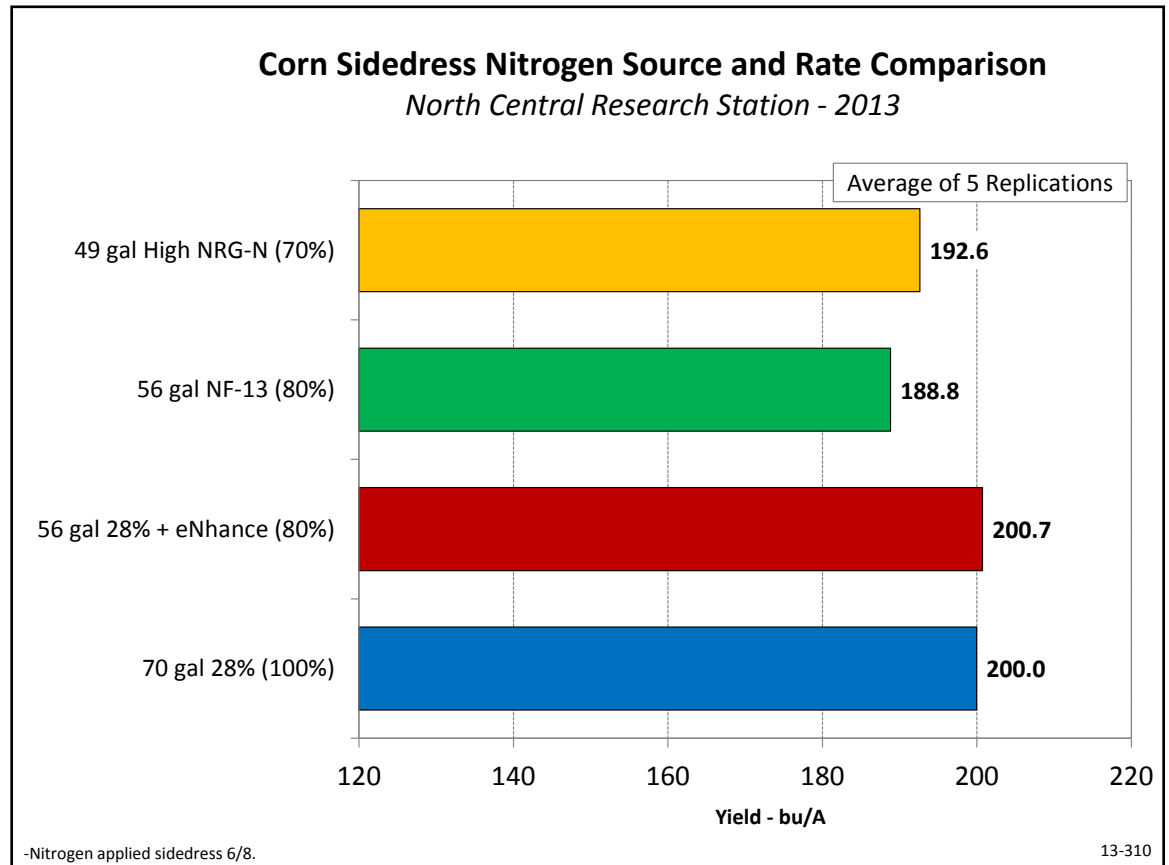
pH:	7.4
CEC:	6
% OM:	1.6
Bicarb P:	11
K:	63
S:	10
% K:	2.7
% Mg:	16.4
% Ca:	79.8
% H:	0
% Na:	1.1
Zn:	0.9
Mn:	3
B:	0.6

Yield Goal:	200 bu
Target Fertilizer Rate:	210-4-109

Objective:

To evaluate an experimental nitrogen product for yield response on corn.

Agro-Culture Liquid Fertilizers is continuously working on improving their products, to provide better resources for growers. In 2013, an experimental nitrogen product, NF-13 was added to the testing protocols. This product is a nitrogen solution with sulfur and has a recommended application at 80% of the conventional nitrogen rate. In order to pass the rounds of testing to become a new product, experimental products like NF-13 have to provide a significant benefit over the existing product. It also has to have proven performance at the NCRS along with contract research sites and on-farm testing. In the first year of testing, the experimental product NF-13 at 56 gal/A was compared to the recommended rates of High NRG-N, 28% + eNhance and 28%. Applications were made at sidedress, 37 days after planting to V4 corn. Yield results appear on the chart below.



LSD (0.2): 9.1 CV: 9.0%

Conclusions:

- At this location, NF-13 did not yield as high as High NRG-N. Continued evaluation of yield results on this product will need to be done to determine if more testing should be done.
- Highest yield was achieved with 28% + eNhance with a yield of 200.7 bu/A. This yielded similar to a higher rate of 28%.