



Corn Nitrogen Source and Rate (15-908)

Experiment Info:

Planted:	5/2/2015
Harvest:	10/6/2015
Yield Goal:	175 bu/A
Target Fert.:	193-55-73
Variety:	DKC 49-72 RIB
Population:	32,000
Row Width:	30"
Prev. Crop:	Soybeans
Plot Size:	15 x 470
Replications:	4
SD (V5)	6/4/2015

Soil Test Values (ppm):

pH:	6.6
CEC:	9.5
%OM:	2.4
Bray P1:	17
Bicarb P:	-
K:	95
S:	12
%K:	2.6
%Mg:	18.9
%Ca:	71.2
%H:	6.6
Zn:	1.3
Mn:	4
B:	0.4

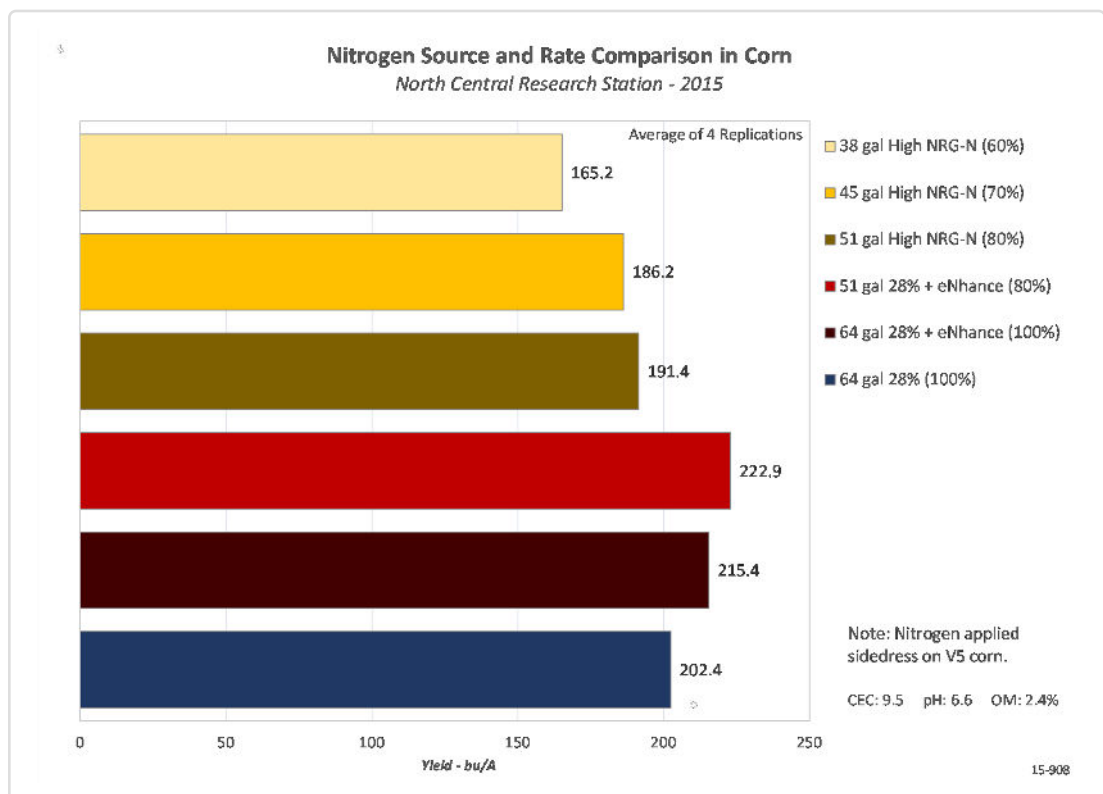
Objective:

To compare Agroliquid High NRG-N and 28% + eNhanse at different rates.

The total recommended rate of nitrogen to meet a 175 bu/A yield goal for this experiment was 193 lb/A or 64 gal/A 28% UAN. It has been proven that 28% UAN at a full rate with the addition of Agroliquid eNhanse at 2 gallon per ton can provide a higher yield than 28% alone. It has also been proven that a reduced rate (80%) of 28% with eNhanse will give very similar yields to the full rate of 28%.

All nitrogen was applied sidedress, 32 days after planting, on V5 corn with a Hagie Nitrogen Toolbar setup for coulter injection on 30" spacings.

The recommended rate of High NRG-N needed in Michigan to match the full 28% rate would be 70% by volume.



LSD(0.2) 20.5, CV: 14.7%

Conclusions:

- There was a significant yield difference between the 60% and 70% rate of High NRG-N.
- The addition of eNhanse at 2 gallon per ton of 28% provided a 13 bu/A yield advantage over 28% UAN alone.
- A reduced rate of 28% + eNhanse provided a 4 bu/A increase over the full 28% rate.
- This is consistent with reduced yields with High NRG-N at sidedress only, where the controlled released nitrogen is not fully available to the corn until later in the season.