



Nitrogen Product and Enhancement Comparison (24-707)

Experiment Info:

Planted:	5-19-2024
Harvest:	10-10-2024
Yield Goal:	200 bu/A
Target Fert.:	
Variety:	DKC 48-69 RIB
Population:	33000
Row Width:	30"
Prev. Crop:	Soybeans
Plot Size:	15 X 52.6
Replications:	4

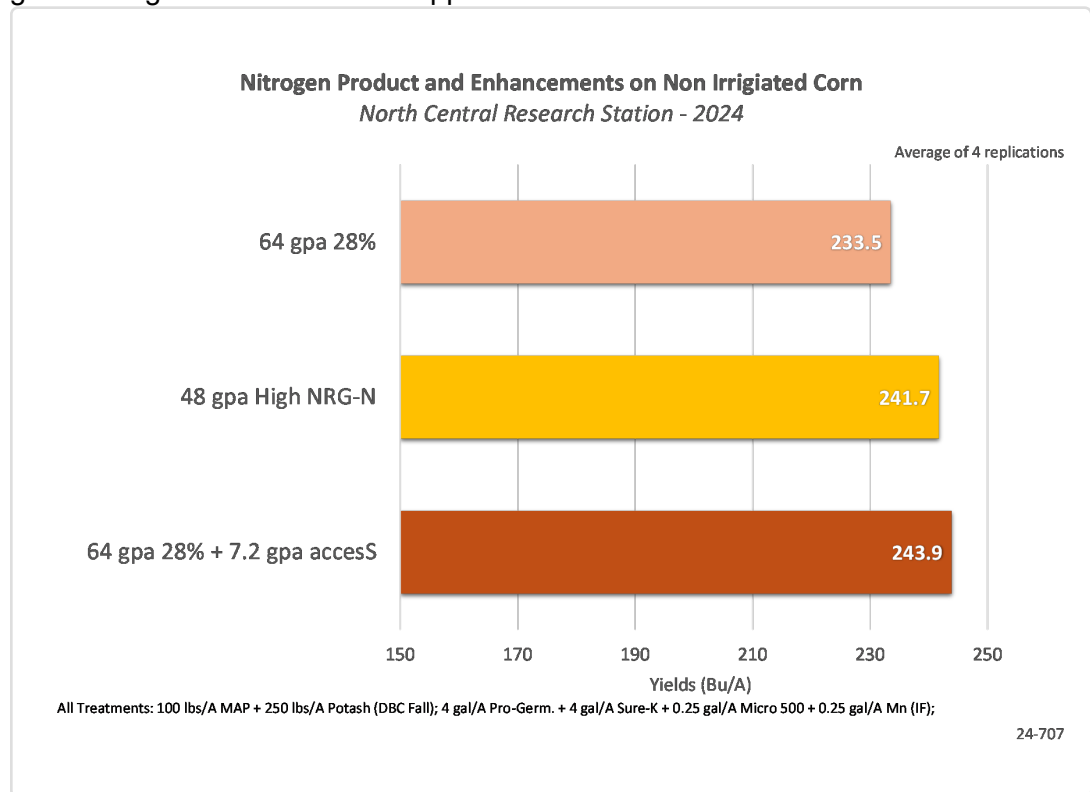
Soil Test Values (ppm):

pH:	5.9
CEC:	13.7
%OM:	2.8
Bray P1:	22
Bicarb P:	0
K:	159
S:	5
%K:	3
%Mg:	18.9
%Ca:	60.9
%H:	16.9
Zn:	1.4
Mn:	8
B:	.3

Objective:

To evaluate the efficiency of High NRG-N when compared to 28% UAN and to determine the value of adding AgroLiquid accesS to a UAN product.

The rate of nitrogen applied for the yield goal of this experiment was 192 lbs. That was achieved with 64 gal/A of 28% UAN or 48 gal/A of High NRG-N. The High NRG-N rate is based on the equivalent of 4 lbs of N per gallon. An additional treatment utilizing 7.2 gal/A of AgroLiquid accesS was added to 64 gal/A of 28% UAN to demonstrate the beneficial aspect of adding sulfur to your nitrogen applications. Corn was planted on May 19th using a standard in-furrow program. All nitrogen treatments were sidedressed on June 24th at growth stage V5. Yield results appear in the chart below.



LSD(0.2):8.7; CV:5.8

Conclusions:

- The addition of accesS at 7.2 gal/A to UAN provided an equivalent 36 lbs/A sulfur to benefit this corn crop and resulted in a significant 10.4 bu/A higher yield than the UAN only check.
- High NRG-N yielded 8.2 bu/A higher than the check comparison of 28% UAN nitrogen.
- High NRG-N provides 1/2 lb of sulfur per gallon of nitrogen.
- Additional sulfur in a nitrogen application can enhance the uptake and usability of the nitrogen.