



Topdress Nitrogen Source Comparison on Winter Wheat (17-718)

Experiment Info:

Planted:	10/15/2016
Harvest:	7/11/2017
Yield Goal:	100 bu/A
Target Fert.:	120-138-61
Variety:	P25R77
Population:	2 million
Row Width:	7.5"
Prev. Crop:	Soybeans
Plot Size:	15 x 210
Replications:	4
TD	4/10/2017

Soil Test Values (ppm):

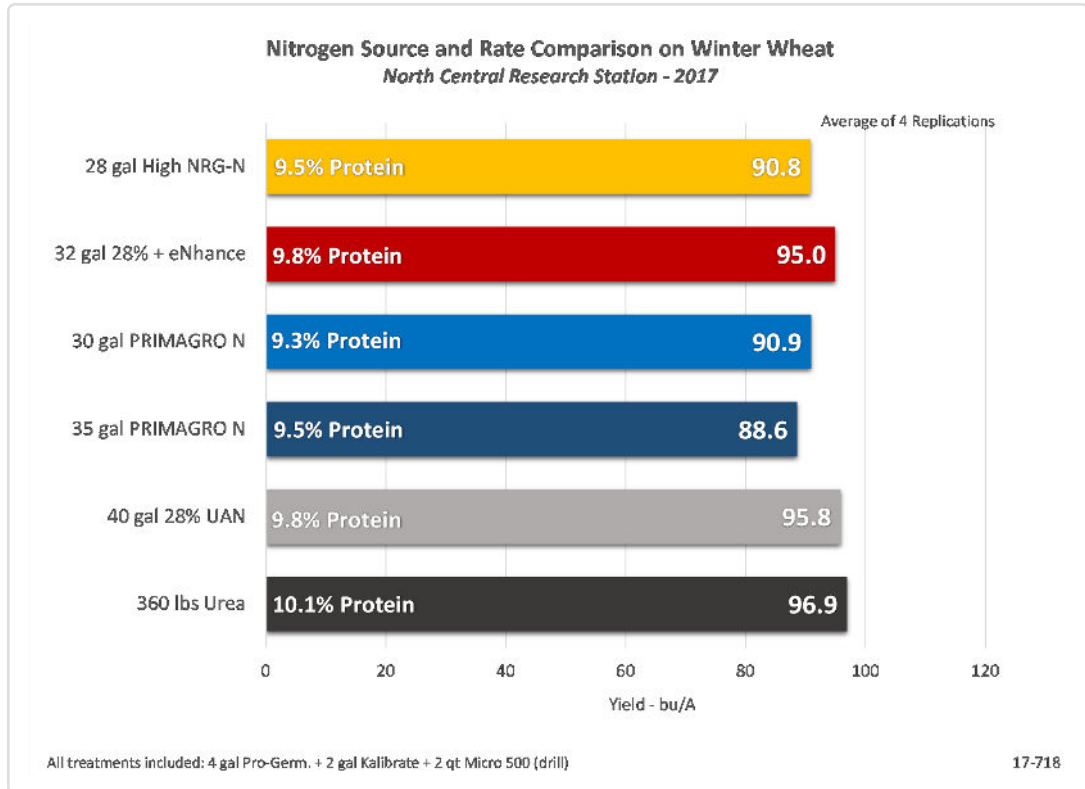
pH:	6.7
CEC:	13.4
%OM:	3.2
Bray P1:	10
Bicarb P:	-
K:	106
S:	23
%K:	2
%Mg:	22.9
%Ca:	74.3
%H:	0
Zn:	1.3
Mn:	4
B:	0.6

Objective:

To evaluate topdress nitrogen sources for effects on winter wheat yield and protein.

This experiment was established to compare five different nitrogen sources for topdress applications on winter wheat. Each product was applied at the recommended rate to provide 120 pounds of nitrogen (or equivalent) per acre. Products evaluated included: High NRG-N, 28% + eNhance (at a 20% reduced rate), PRIMAGRO N, 28% UAN and Urea. One product, PRIMAGRO N, was applied at 2 rates because use rate efficiencies are still being determined. Although a yield goal of 100 bu/A of wheat was set, a dry growing season limited the final yield.

Yield results and protein values are shown on the chart below.



Conclusions:

- Similar yield was achieved with all nitrogen sources.
- The highest numerical yields were achieved with more actual pounds of nitrogen applied per acre. This could mean that more nitrogen was needed this growing season to reach top yield potential.