



Winter Wheat Topdress N Applications (15-705)

Experiment Info:

Planted:	9/29/2014
Harvest:	7/22/2015
Yield Goal:	100 bu/A
Target Fert.:	120-143-53
Variety:	P25R40
Population:	2 million
Row Width:	7.5"
Prev. Crop:	Navy Beans
Plot Size:	15 x 265
Replications:	4
LBC (PRE)	9/29/2015
TD	3/24/2015
DBC	3/24/2015

Soil Test Values (ppm):

pH:	6.6
CEC:	11.3
%OM:	1.9
Bray P1:	9
Bicarb P:	-
K:	106
S:	11
%K:	2.4
%Mg:	20.5
%Ca:	70.2
%H:	6.4
Zn:	1.0
Mn:	10
B:	0.5

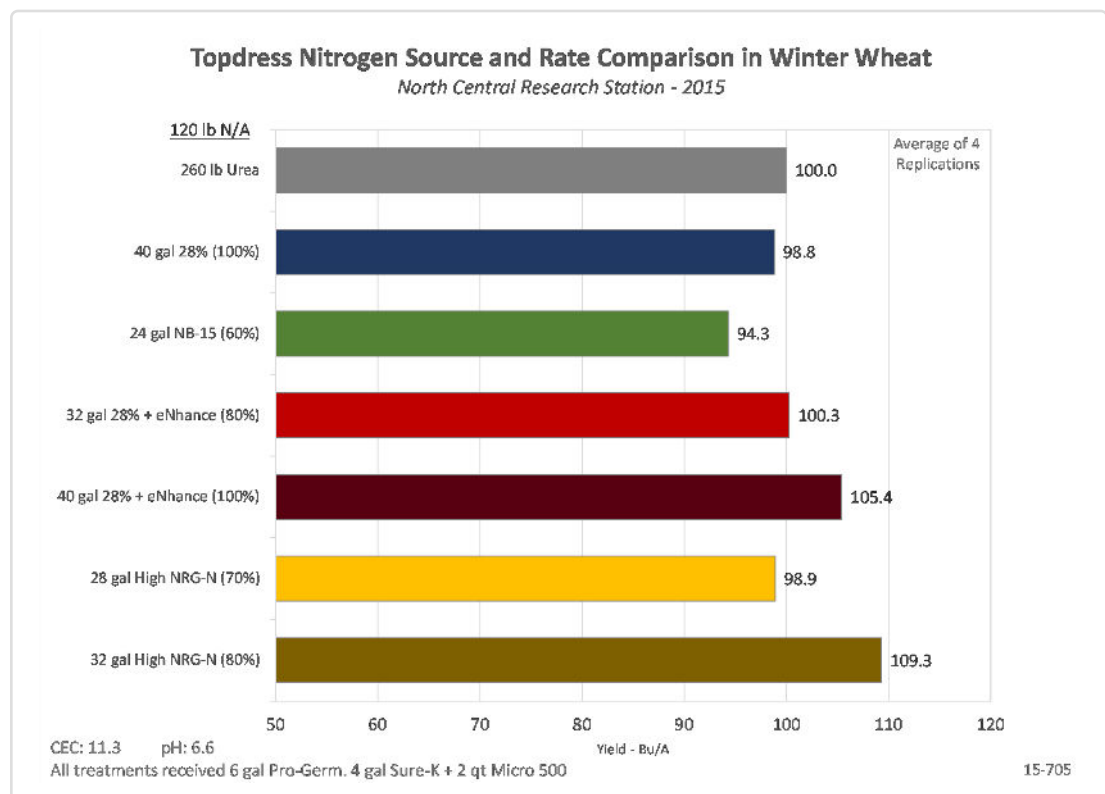
Objective:

To evaluate topdress nitrogen sources for winter wheat.

There are many options of nitrogen sources when it comes to topdress applications on winter wheat. This experiment compared five nitrogen sources: High NRG-N, 28% + eNhance, experimental product NB-15, 28% UAN and urea 46-0-0. Applications were made in the spring at Feekes 4, just as the wheat was coming out of winter dormancy. Liquid sources were applied with stream bars, dry urea was applied with a air spreader.

All sources were applied to provide an equivalence of 120 lbs of N/A. Additionally, High NRG-N and 28% + eNhance were also applied at a second higher rate to evaluate yield response.

Yield results appear on the chart below.



Conclusions:

- The recommend rates of all nitrogen sources, except the experimental product NB-15, yielded similar reaching the 100 bu/A yield goal.
- In this experiment, the recommended rate of the experimental product NB-15 did not yield as well as other nitrogen sources. Further testing will be done looking at different rates to determine it's efficiency.
- Increasing 28% + eNhance to the full 100% nitrogen rate increased wheat yield by 5 bu/A.
- Highest yield was achieved by increasing the High NRG-N rate from a 70% to 80% efficiency.