



Nitrogen Source Comparisons on Dryland Winter Wheat (15-510)

Experiment Info:

Planted:	10/12/2014
Harvest:	7/22/2015
Yield Goal:	80 bu/A
Target Fert.:	34-6-135
Variety:	P25R40
Population:	2 million
Row Width:	7.5"
Prev. Crop:	Soybeans
Plot Size:	15 x 284
Replications:	2
TD	3/24/2015

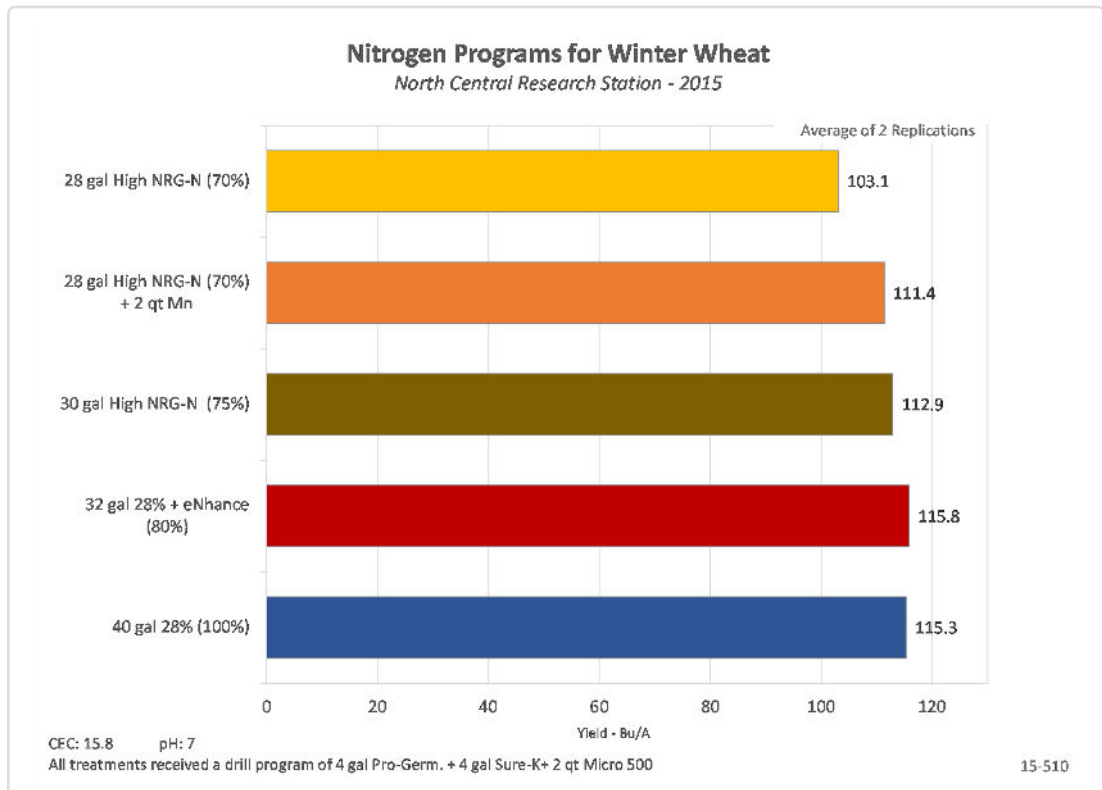
Soil Test Values (ppm):

pH:	7
CEC:	15.8
%OM:	3.2
Bray P1:	14
Bicarb P:	10
K:	75
S:	18
%K:	1.2
%Mg:	19.8
%Ca:	78.6
%H:	0
Zn:	1.4
Mn:	11
B:	0.8

Objective:

To compare different nitrogen programs on dryland winter wheat.

This experiment made comparisons of High NRG-N at 28 gal/A and 30 gal/A rates, 28 gal/A High NRG-N + 2 qt/A Mn, 32 gal/A 28% + eNhanche and 40 gal/A 28% UAN. All applications were made as topdress applications of nitrogen on winter wheat just breaking dormancy in the spring. Stream nozzles were used to apply the treatments in evenly spaced bands at 5 inch intervals across the soil surface. This experiment looked good through out the growing season. Yields appear in the chart below.



LSD(0.2) 13.2, CV: 9.7%

Conclusions:

- No significant yield differences were realized between the 5 treatments.
- The addition of 2 qt/A of Manganese to High NRG-N provided a yield increase of 8.3 bu/A over the same rate of High NRG-N only.
- An additional 2 gal/A of High NRG-N provided a yield advantage of 9.8 bu/A over the 28 gal/A rate.
- The treatment of 28% + eNhanche at 32 gal/A produced the highest yield of all nitrogen sources and only a couple of bushels ahead of the 30 gal/A rate of High NRG-N.
- Using 8 less gallons of 28% UAN and adding eNhanche provided the same yield as the full 40 gal/A rate of 28% UAN.