



Phosphorus Fertilizer Source Comparison in Winter Wheat (17-707)

Experiment Info:

Planted:	10/12/2016
Harvest:	7/14/2017
Yield Goal:	120 bu/A
Target Fert.:	120-131-0
Variety:	P25R77
Population:	2 million
Row Width:	7.5"
Prev. Crop:	Navy Beans
Plot Size:	15 X 265
Replications:	4
LBC (PRE)	10/12/2017
TD	4/10/2017

Soil Test Values (ppm):

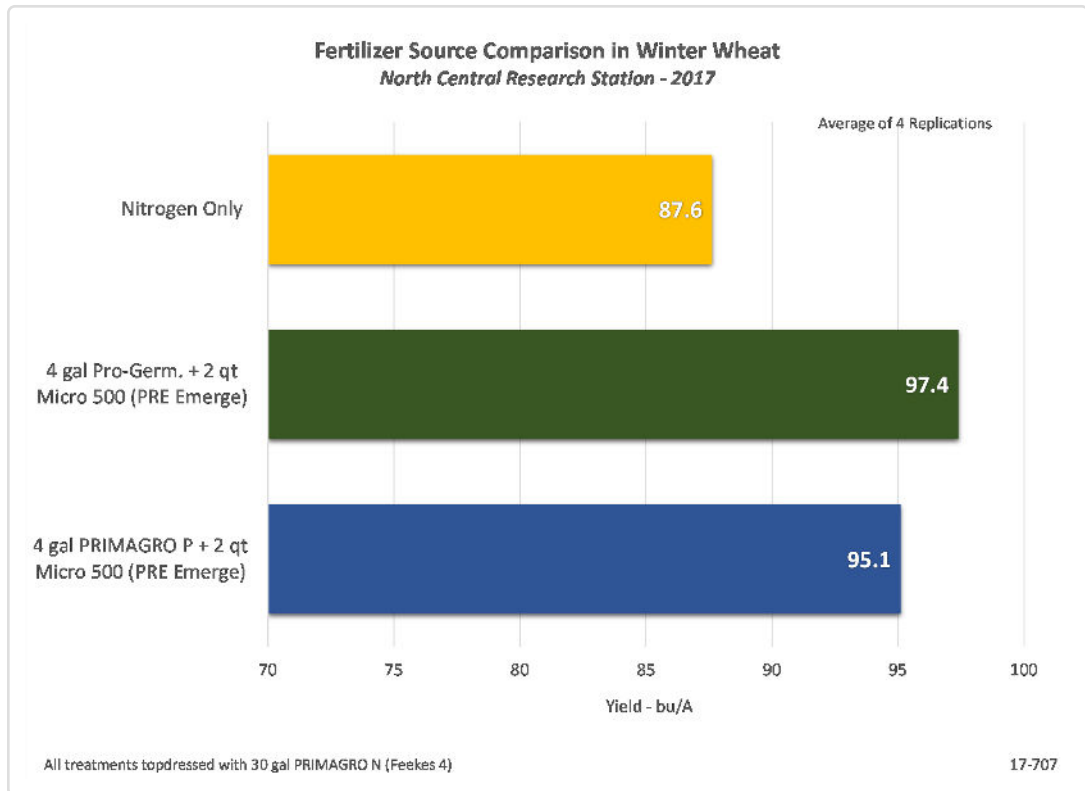
pH:	6.9
CEC:	13.3
%OM:	3.3
Bray P1:	14
Bicarb P:	-
K:	149
S:	18
%K:	2.9
%Mg:	21.7
%Ca:	74.6
%H:	0
Zn:	1.1
Mn:	4
B:	0.5

Objective:

To determine yield benefits of AgroLiquid's phosphorus fertilizer sources on winter wheat yield.

With the release of AgroLiquid's new PRIMAGRO line, there is now a second phosphorus fertilizer option. The biological components included with the PRIMAGRO are there to support improvement of soil health. In this trial, per-emergence broadcast applications of 4 gal/A of Pro-Germinator and 4 gal/A PRIMAGRO P are compared to a no phosphorus treatment. Both phosphorus applications included 2 qt/A Micro 500 and all three treatments received the same topdress application of 30 gal/A PRIMAGRO N at the Feekes 4 growth stage.

Yield results appear on the chart below.



CV: 8.8%, LSD(0.2) 8.2

Conclusions:

- Both phosphorus fertilizer sources increased wheat yield over the nitrogen only check.
- Pro-Germinator yielded 2 bu/A higher than PRIMAGRO P, however this difference was not statistically different.
- The potential for soil health improvements with PRIMAGRO P will be monitored.