



# PRIMAGRO N Rate and Timing on Winter Wheat (17-508)

## Experiment Info:

Planted:	10/20/2016
Harvest:	7/11/2017
Yield Goal:	100 bu/A
Target Fert.:	120-38-130
Variety:	P25R77
Population:	2 million
Row Width:	7.5"
Prev. Crop:	Soybeans
Plot Size:	15 x 290/310
Replications:	4
TD	4/10/2017
TD	5/8/2017

## Soil Test Values (ppm):

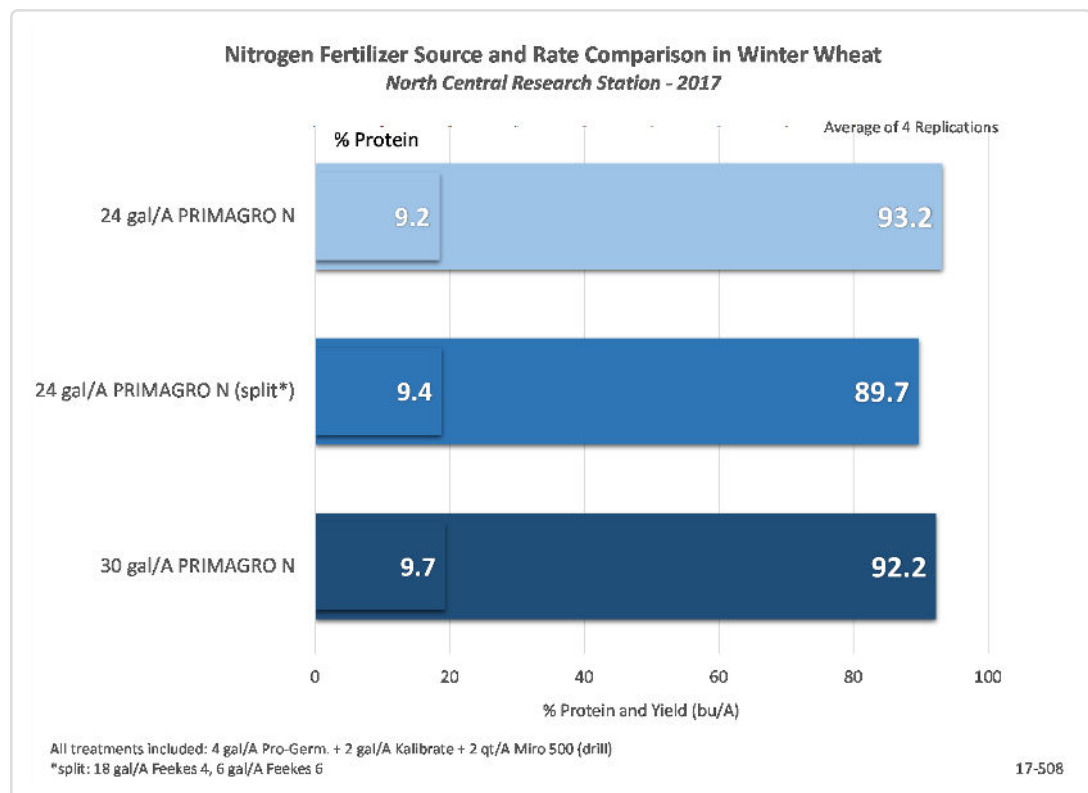
pH:	6.5
CEC:	7.8
%OM:	1.7
Bray P1:	30
Bicarb P:	-
K:	42
S:	23
%K:	1.4
%Mg:	18.7
%Ca:	70.2
%H:	7.9
Zn:	.9
Mn:	7
B:	0.5

## Objective:

To evaluate the performance of different application rates and timing of PRIMAGRO N on a winter wheat crop.

PRIMAGRO N is a new nitrogen source for Agroliquid with technology that protects the nitrogen while reducing losses from nitrate leaching and ammonia or urea volatility. This new product is a fast-acting 30% nitrogen fertilizer.

Two rates of PRIMAGRO N, 24 gal/A and 30 gal/A, were compared to each other as a single top-dress application at the growth stage of Feekes 4. Another treatment compared the use of the 24 gal/A rate in a split top-dress application with 18 gal/A at Feekes 4 and 6 gal/A at Feekes 6. Samples for protein analysis were also collected and sent to a lab for independent results. Yields and protein content appear in the chart below.



CV: 5.5%, LSD(0.2) 3.5

## Conclusions:

- No significant differences in yields resulted from the different application rates of PRIMAGRO N.
- Split applications of PRIMAGRO N had a reduction in yield when compared to the same rate as the one time application. A single application is more beneficial and saves trips across the field.
- Increasing the rate of PRIMAGRO N to 30 gal/A did improve overall protein content by 0.5% in this experiment.