



# Foliar Fertilizer Comparison in 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
FOL	5/31/2017

## Soil Test Values (ppm):

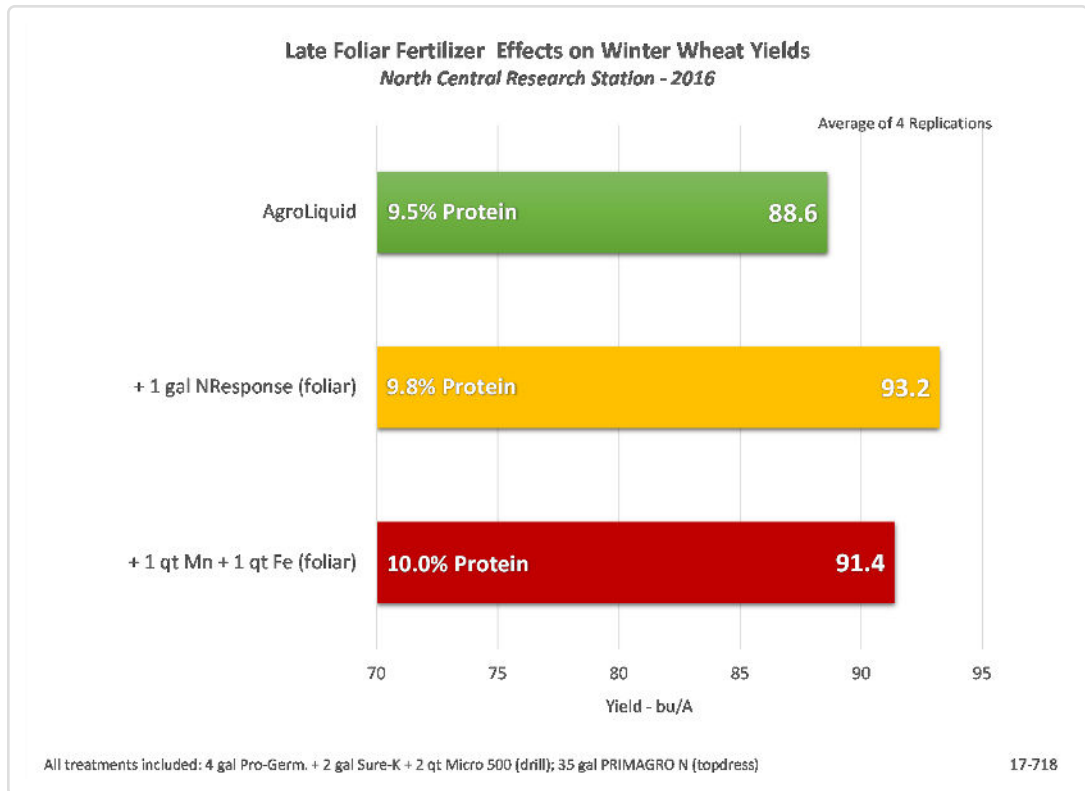
pH:	6.7
CEC:	13.4
%OM:	3.2
Bray P1:	10
Bicarb P:	-
K:	106
S:	23
%K:	2
%Mg:	22.9
%Ca:	74.3
%H:	0
Zn:	1.3
Mn:	4
B:	0.6

## Objective:

To determine the effect of late season foliar fertilizer applications on winter wheat yield and protein.

This trial was established to compare two foliar fertilizer programs applied during flowering on winter wheat. These applications were timed to be applied in conjunction with a fungicide application at flowering. For this experiment fertilizer applications were made separately, followed immediately by an application of Prosaro fungicide to the entire test. Applications were made at a total spray volume of 10 gal/A. The two fertilizer treatments that were evaluated were: 1) 1 gal/A NResponse and 2) 1 qt/A Manganese + 1 qt/A Iron.

Yield and protein response appear on the chart below.



CV: 7.5%, LSD(0.2) 5.5

## Conclusions:

- Both foliar applications did increase winter wheat yield compared to the no foliar treatment.
- Highest yield was achieved with 1 gal NResponse increasing yield by over 4.5 bu/A. Protein level was also increased from 9.5% to 9.8%.
- The micronutrient combo manganese and iron increased winter wheat yield by nearly 3 bu/A and produced the highest grain protein of 10%.
- Foliar applications of nutrition in combination with fungicide is an opportunity to increase yield and quality.