



Drill Fertilizer Applications for Wheat (20-602)

Experiment Info:

Planted:	9/19/2019
Harvest:	7/14/2020
Yield Goal:	90 bu/A
Target Fert.:	
Variety:	SY-100
Population:	1.5 million
Row Width:	7.5"
Prev. Crop:	Soybeans
Plot Size:	15 x 330
Replications:	3

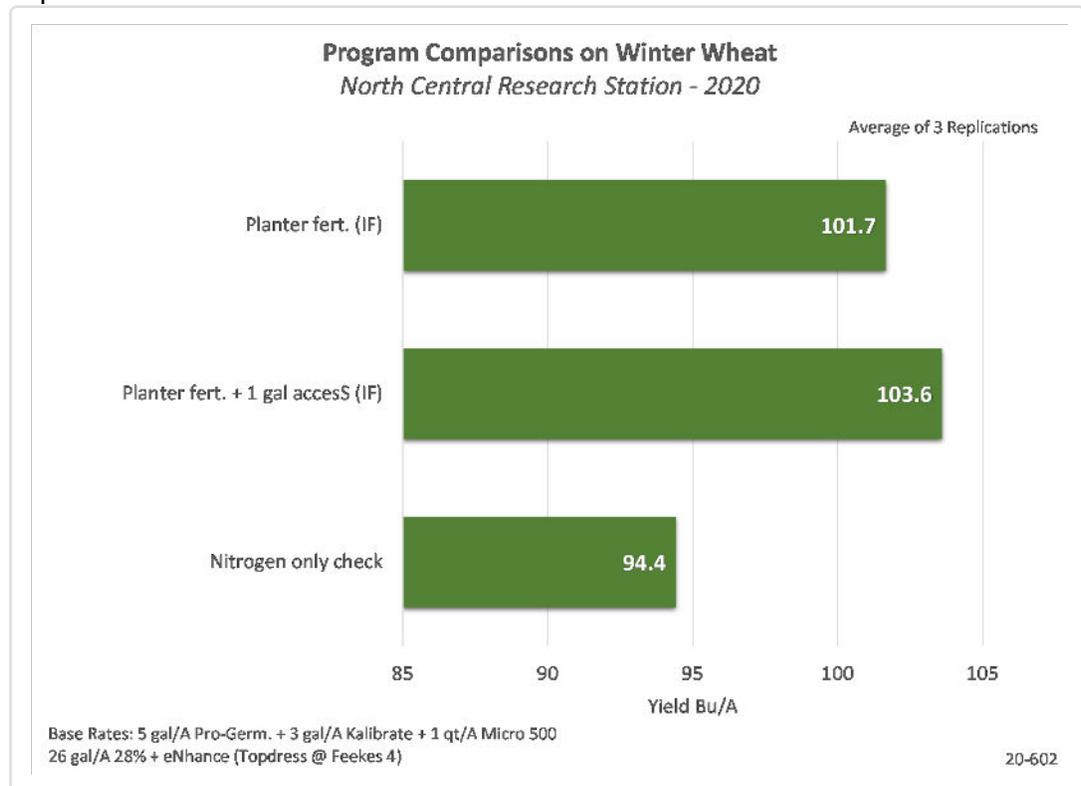
Soil Test Values (ppm):

pH:	6
CEC:	4.1
%OM:	1.2
Bray P1:	19
Bicarb P:	0
K:	61
S:	15
%K:	3.8
%Mg:	15.2
%Ca:	65.6
%H:	13.6
Zn:	1.2
Mn:	7
B:	.4

Objective:

To evaluate the effects of in-furrow drill fertilizer programs at planting time.

In this study a base rate of 5 gal Pro-Germinator + 3 gal Kalibrate + 1 qt Micro 500 was applied through the drill using an electric pump system delivering the fertilizer mix to a tube for application in the seed furrow after seed placement and before furrow closing. AccesS was added to the base planter fertilizer mix to provide the important secondary nutrient, sulfur, that is needed by the plant. Sulfur is a key nutrient to making the plant healthy and sulfur and nitrogen need to have a balance for the plant to use nitrogen efficiently. A nitrogen only check was included for comparison of the in-furrow fertilizer treatments. Results of the experiment are shown in the chart below.



Conclusions:

- The base planter fertilizer program utilizing Pro-Germinator, Kalibrate and Micro 500 provided a 7.3 bu/A additional yield over the nitrogen only check. This emphasizes the that P and K as well as micro nutrients are beneficial for a good winter wheat crop.
- The addition of 1 gal of accesS to the base in-furrow planter program resulted in a 1.9 bu/A additional yield.