



Sulfur Product and Placement in Corn (21-507)

Experiment Info:

Planted:	5/15/2021
Harvest:	10/7/2021
Yield Goal:	250 bu/A
Target Fert.:	275-18-5
Variety:	DKC 54-64 RIB
Population:	35000
Row Width:	30"
Prev. Crop:	Soybeans
Plot Size:	15 X 240
Replications:	3

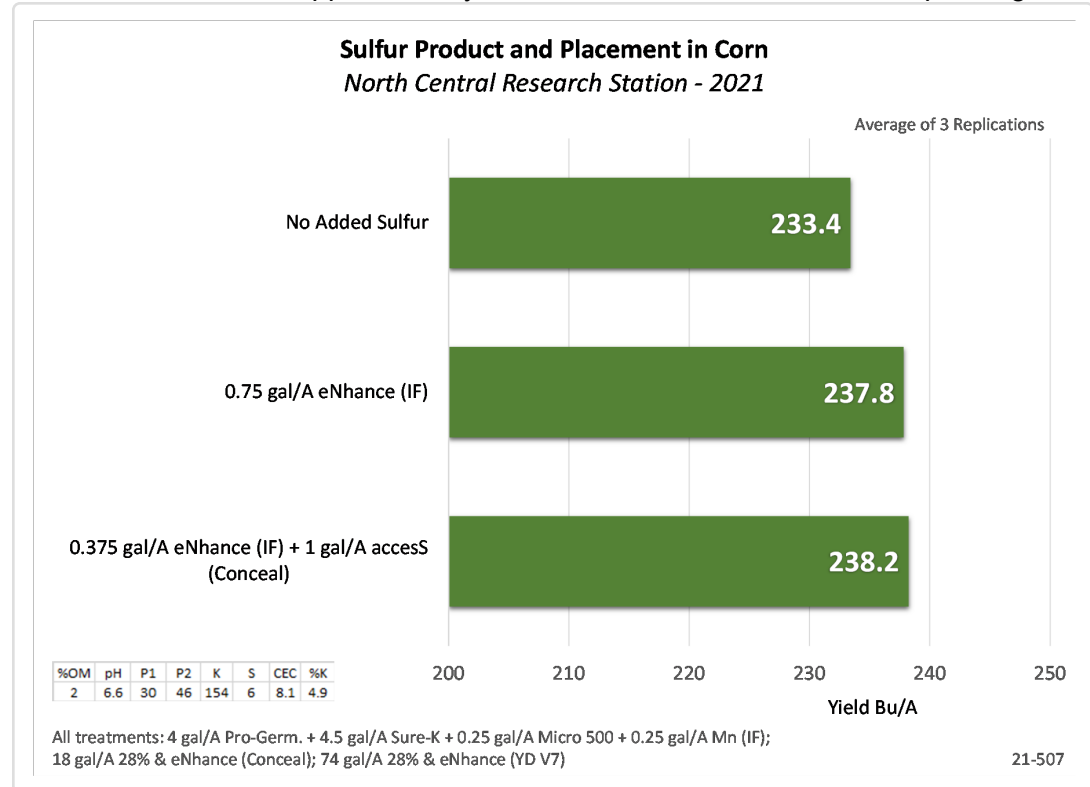
Soil Test Values (ppm):

pH:	6.6
CEC:	8.1
%OM:	2
Bray P1:	30
Bicarb P:	0
K:	154
S:	6
%K:	4.9
%Mg:	18.6
%Ca:	69.2
%H:	6.5
Zn:	1.1
Mn:	5
B:	0.3

Objective:

To provide evaluation data on the added benefit of planter applied sulfur for corn.

The last few years have really shown a benefit to using sulfur, a secondary nutrient, for increasing yield in corn. There has been some research showing the advantage of early sulfur and this experiment was intended to expand on last years (20-506) trial of sulfur options. The experiment was established on May 15th using 104 RM corn and 4 gal/A Pro-Germinator + 4.5 gal/A Sure-K + 0.25 gal/A Micro 500 + 0.25 gal/A Mn placed in-furrow. One treatment also included 0.75 gal/A eNhanse as a sulfur source in-furrow and the other treatment included 0.375 gal/A eNhanse in-furrow with an additional 1 gal/A accesS being placed with the nitrogen on each side of the row using Conceal. eNhanse is safe to place in the corn furrow and each gallon can provide the equivalent of 12 lbs of sulfur per acre. Both sulfur treatments had approximately 9 lbs of additional sulfur added at planting time.



LSD(0.2)6.7, CV:3.3%

Conclusions:

- The addition of approximately the equivalent of 9 lbs of sulfur at the time of planting yielded at least an additional 4.4 bu/A over the check.
- Adding the secondary nutrient sulfur is important for nitrogen utilization and other plant functions.
- eNhanse is a great product to safely apply sulfur in-furrow for corn.
- accesS should always be placed away from the seed and can be used on the planter or added to a sidedress nitrogen application. However previous research has shown that for best response it should be applied with the planter, but away from the seed.