AGRO-CULTURE LIQUID FERTILIZERS

# Planter-Applied Sulfur Fertilizers in Corn (14-703)

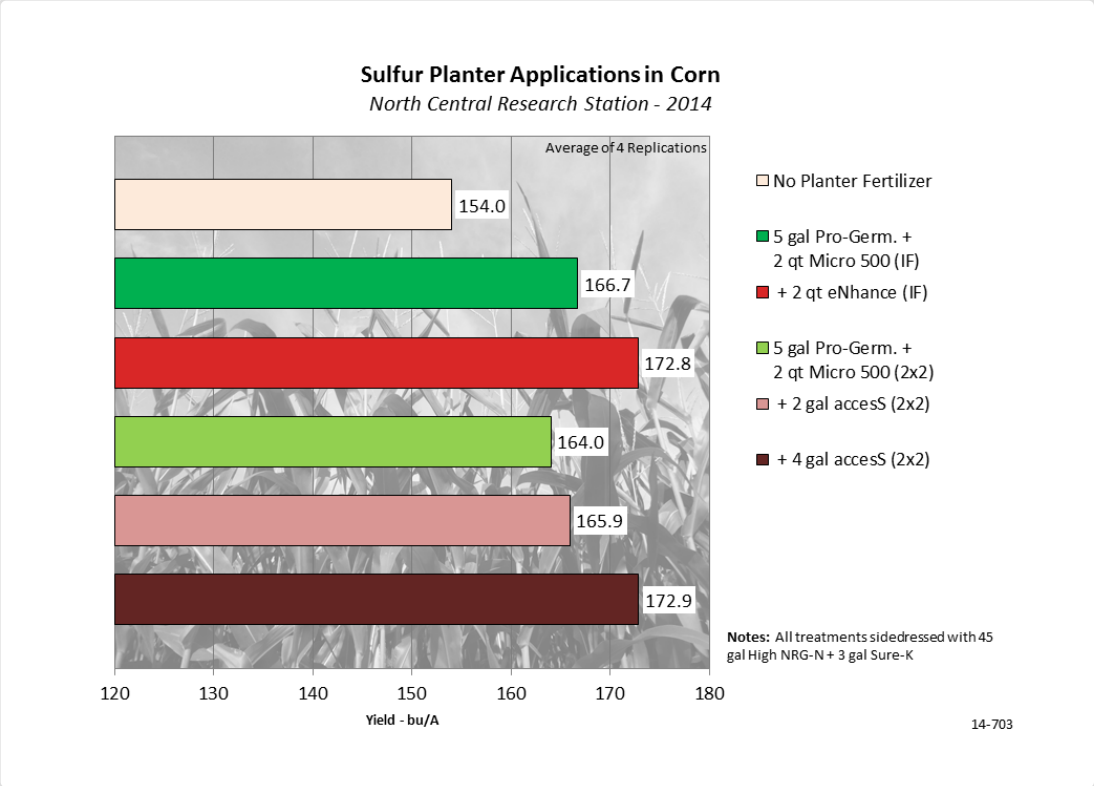
| Experiment Info: | |
|---|---|
| Planted: | 5/25/2014 |
| Harvest: | 10/30/2014 |
| Yield Goal: | 175 bu/A |
| Target Fert.: | 193-100-43 |
| Variety: | DKC 49-29 RIB |
| Population: | 29,500 |
| Row Width: | 30" |
| Prev. Crop: | Soybeans |
| Plot Size: | 15 x 265 |
| Replications: | 4 |
| Sidedress: | 6/30/2014 |

| Soil Test Values (ppm): | |
|---|---|
| pH: | 6.4 |
| CEC: | 13.3 |
| %OM: | 2.3 |
| Bray P1: | 8 |
| Bicarb P: | - |
| K: | 123 |
| S: | 11 |
| %K: | 2.4 |
| %Mg: | 16.2 |
| %Ca: | 72.3 |
| %H: | 8.7 |
| Zn: | 1.3 |
| Mn: | 8 |
| B: | 0.5 |

## Objective:

To evaluate to use of sulfur fertilizer additives, eNhance and accesS, to a corn planter program.

The addition of sulfur to fertilizer programs has become increasingly important in recent years. Agro-Culture Liquid Fertilizers offers two sulfur products that can be added to a corn planter program. The first source, eNhance is a seed safe option and can be applied in-furrow up to 3 qt/A. This experiment compared 5 gal/A Pro-Germinator and 2 qt/A Micro 500 with and without the addition of 2 qt eNhance applied in-furrow. The other source, accesS is not for in-furrow and should be applied away from the seed in a 2x2 band. This was compared to the same planter rates of Pro-Germinator and Micro 500 but applied 2x2 with and without the addition of either 2 or 4 gal/A of accesS. Yield results appear on the table below.




LSD(0.2) 8.8, CV: 7.6%

## Conclusions:

- Both planter applied programs of Pro-Germinator and Micro 500 increased yield significantly over the no planter fertilizer check. There was a slight yield advantage, 2.7 bu/A, to applying Pro-Germinator + Micro 500 in-furrow compared to 2x2.
- The addition of 2 qt/A of eNhance to an in-furrow planter application increased corn yield by over 6 bu/A.
- Applications of accesS to a 2x2 planter fertilizer program increased corn yield nearly 2 bu/A when applied at 2 gal/A however, highest yield was achieved with the 4 gal/A rate with nearly 9 bu/A increase.
- Both eNhance and accesS are excellent sources of sulfur and can be easily added to a corn planter fertilizer program to provide the necessary sulfur a crop needs to achieve top yield.