

Experiment Info:

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| Planted: | 10/10/2014 |
| Harvest: | 10/2/2014 |
| Yield Goal: | 100 bu/A |
| Target Fert.: | 0-90-243 |
| Variety: | 8N358 CLPM |
| Population: | 25,500 |
| Row Width: | 30" |
| Prev. Crop: | Milo |
| Plot Size: | 15 x 125 |
| Replications: | 2 |
| Liquid BC: | 6/6/2014 |

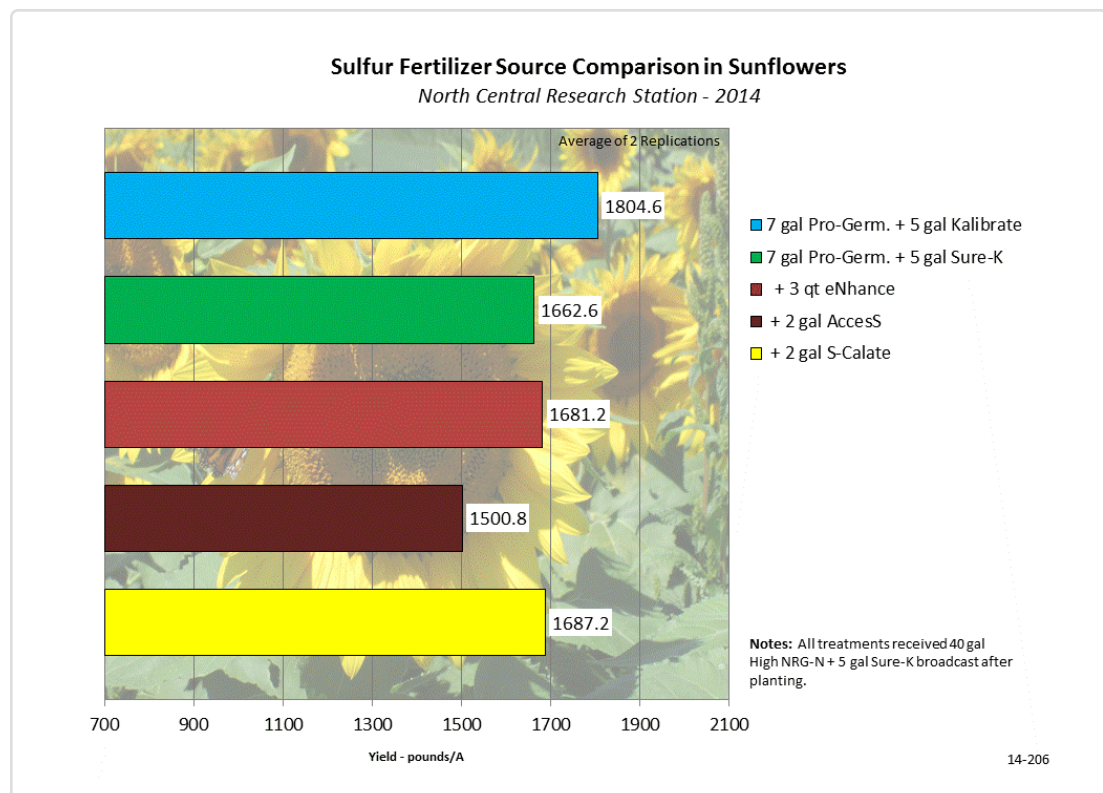
Soil Test Values (ppm):

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|-----------|------|
| pH: | 7 |
| CEC: | 6.1 |
| %OM: | 1.2 |
| Bray P1: | 21 |
| Bicarb P: | 10 |
| K: | 42 |
| S: | 11 |
| %K: | 1.8 |
| %Mg: | 19.3 |
| %Ca: | 78.1 |
| %H: | 0 |
| Zn: | 0.5 |
| Mn: | 4 |
| B: | 0.4 |

Objective:

Evaluation of sulfur fertilizer sources for sunflower production.

Sulfur fertilizer is very important for sunflower production. An experiment was established at the NCRS on a soil that was lower in sulfur testing 11 ppm, requiring 10 pounds of sulfur added to the fertilizer program. According to soil testing recommendations 7 gal/A of Pro-Germinator and 5 gal/A Sure-K placed 2x2 was applied as a standard program. Sulfur sources: eNhance, accesS and S-Calate were added to the standard programs and rates to apply equivalence of 10 pounds of sulfur. In addition, for one treatment the 5 gal/A of Sure-K was replaced with 5 gal/A of Kalibrate which would provided the potassium plus the recommended 10 pounds of sulfur. Yield results appear on the chart below.



Conclusions:

- Use of Kalibrate, which contains 6% sulfur, provided the highest yield of 1804 pounds of sunflowers.
- The addition of eNhance and S-Calate to a Pro-Germinator and Sure-K program provided similar yields, increasing sunflower yield slightly over the no sulfur treatment.
- Surprisingly, the addition accesS did not cause any sunflower yield benefit compared to the standard Pro-Germinator and Sure-K fertility programs.