



Soil Applied Fertilizer Options in Corn 2017

Watertown, NY

Experiment Info:

Planted:	6/2/2017
Harvest:	12/1/2017
Yield Goal:	230
Target Fert.:	
Variety:	DK 36-30RIB
Population:	29000
Row Width:	30"
Prev. Crop:	Corn
Plot Size:	5 acres
Replications:	1

Soil Test Values (ppm):

pH:	6.6
CEC:	9.1
%OM:	3.0
Bray P1:	40
Bicarb P:	
K:	84
S:	17
%K:	2.4
%Mg:	10.2
%Ca:	80.7
%H:	6.7
Zn:	2.4
Mn:	12
B:	0.9

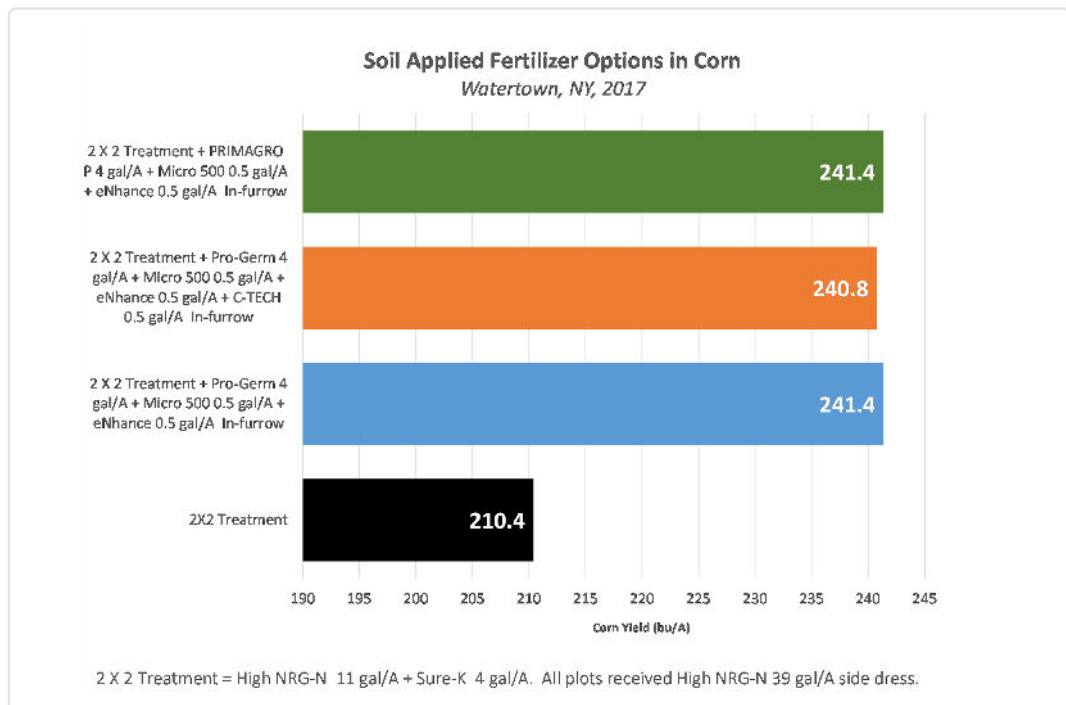
Objective:

Compare the performance of several in-furrow applied fertilizer programs to a nitrogen + potassium only 2X2 program.

A base program of 11 gal/A High NRG-N + 4 gal/A Sure-K was applied 2X2 to all plots in the trial (2X2 Treatment, Treatment #4). In-furrow treatments included:

- 1) 4 gal/A PRIMAGRO P + 0.5 gal/A Micro 500 + 0.5 gal/A eNhanse;
- 2) 4 gal/A Pro-Germiantor + 0.5 gal Micro 500 + 0.5 gal/A eNhanse + 0.5 gal/A C-TECH; and
- 3) 4 gal/A Pro-Germinator + 0.5 gal/A Micro 500 + 0.5 gal/A eNhanse.

All plots received a side dress application of 39 gal/A High NRG-N at V5 growth stage.



Conclusions:

- Addition of phosphorus, micronutrients, and sulfur applied in-furrow improved corn yield by 30 bu/A compared to a nitrogen + potassium only check. The size of the yield improvement is notable considering that the soil had good levels of phosphorus and modest levels of sulfur and micronutrients.
- PRIMAGRO P performed as well as Pro-Germinator in this trial.
- Observations during the season: Corn treated with C-TECH or PRIMAGRO P tasseled and silked several days earlier than the other treatments in the trial. Visually, the PRIMAGRO P treated corn looked healthier and taller throughout the growing season than corn receiving other treatments.
- This trial shows the advantage of in-furrow applications of phosphorus, sulfur and micronutrients.