



In-furrow Planter Mix for Southeast (21-803)

Experiment Info:

Planted:	5/5/2021
Harvest:	10/18/2021
Yield Goal:	60 bu/A
Target Fert.:	0-28-116
Variety:	P22T86E
Population:	135000
Row Width:	30"
Prev. Crop:	Corn
Plot Size:	15 x 530
Replications:	3

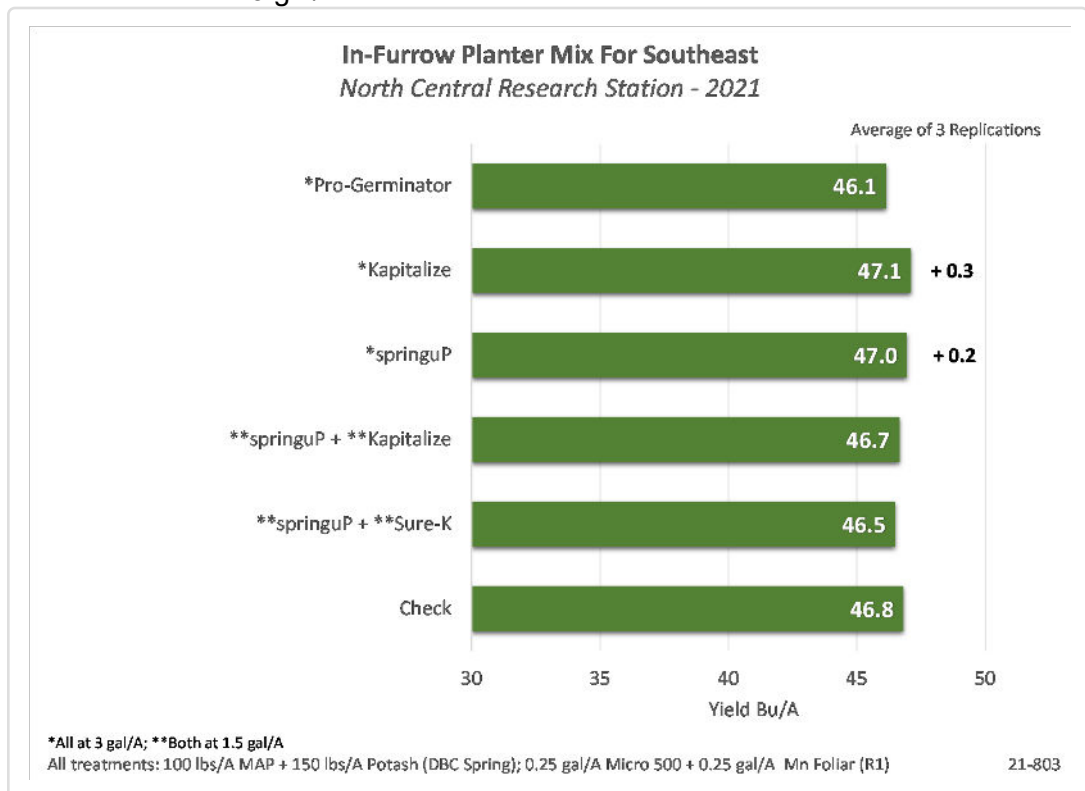
Soil Test Values (ppm):

pH:	5.8
CEC:	9
%OM:	2.3
Bray P1:	26
Bicarb P:	0
K:	103
S:	5
%K:	2.9
%Mg:	17.9
%Ca:	60.2
%H:	18.6
Zn:	0.9
Mn:	4
B:	0.2

Objective:

To evaluate the yield effect of adding fertilizer products, commonly used in the southeast, in-furrow at planting for soybeans.

A dry base program of 100 lbs/A MAP + 150 lbs/A potash was broadcast in early spring. No tillage proceeded the planting which was completed on May 5th with a target seeding rate of 135,000 plants per acre and the individual fertilizer products applied at 3 gal/A in-furrow with a split stream method. Other combination fertilizer products were applied at 1.5 gal/A of each for the same 3 gal/A rate in-furrow.



LSD(0.2)4.6, CV:9.1

Conclusions:

- This particular experiment showed no response to in-furrow fertilizer at planting on soybeans. This effect was not expected as there usually is a yield response.
- This field, with a 5.9 pH, usually responds well to calcium applications. Kapitalize does have a 0.5% calcium and 3 gal/A did not result in a yield increase.
- It is possible that the broadcast potash provided adequate phosphorus and potassium over the growing season and a low rate in-furrow application did not result in a crop response with the limiting factor being calcium.