



Fertilizer Program Comparisons in Cotton. Impact Agronomics. Pantego, NC

Experiment Info:

Planted:	05/21/15
Harvest:	11/07/15
Yield Goal:	1000 lb
Target Fert.:	
Variety:	PHY333WR
Population:	43,500
Row Width:	36"
Prev. Crop:	soybeans
Plot Size:	4 row x 40'
Replications:	4

Soil Test Values (ppm):

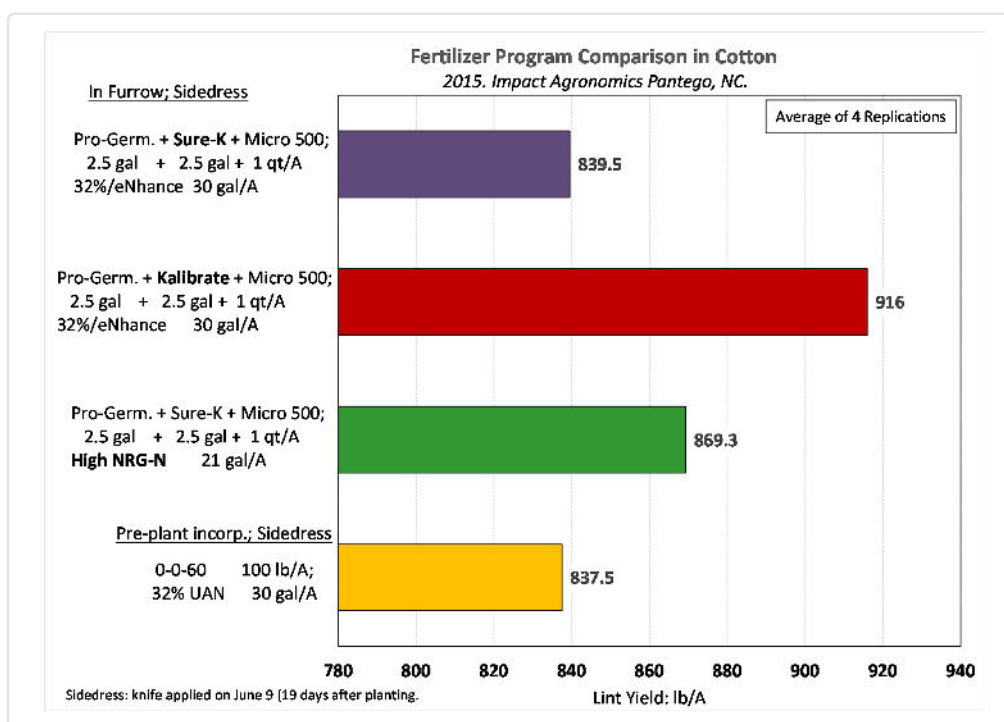
pH:	5.6
CEC:	9.4
%OM:	7.8%
Bray P1:	
Bicarb P:	
K:	
S:	
%K:	
%Mg:	
%Ca:	
%H:	
Zn:	
Mn:	
B:	

Objective:

Compare different fertilizer programs on cotton for effects on yield.

Like most crops, there are different program approaches to providing fertility. In-furrow applications are effective, but can be risky due to injury potential. This particular experiment was established in a fine sandy loam soil with high organic matter, and so the injury risk is reduced. But none the less, the rate was capped at 5.25 gal/A. Application is through a tube dropping fertilizer into the furrow prior to row closure. The standard comparison was a broadcast/incorporated application of muriate of potash and sidedress 32% UAN.

Note: a full soil test was not yet provided, but will be attached when received.



LSD(0.2): 65; CV: 7.8%

Conclusions:

- There was quite a strong response when Kalibrate was substituted for Sure-K in the planter band. Kalibrate contains sulfur which has shown an advantage when applied in-furrow on other crops as well.
- There was a slight increase in average yield using a reduced rate of High NRG-N instead of 32%/eNhance.
- The conventional treatment of potash and 32% UAN was the lowest yielding treatment. Although less expensive in product cost, there is the added cost of spreading and tillage to consider.