

Experiment Info:

Planted:	05/07/14
Harvest:	10/18/14
Yield Goal:	
Target Fert.:	90-0-60
Variety:	
Population:	
Row Width:	36"
Prev. Crop:	cotton
Plot Size:	12' x 40'
Replications:	4

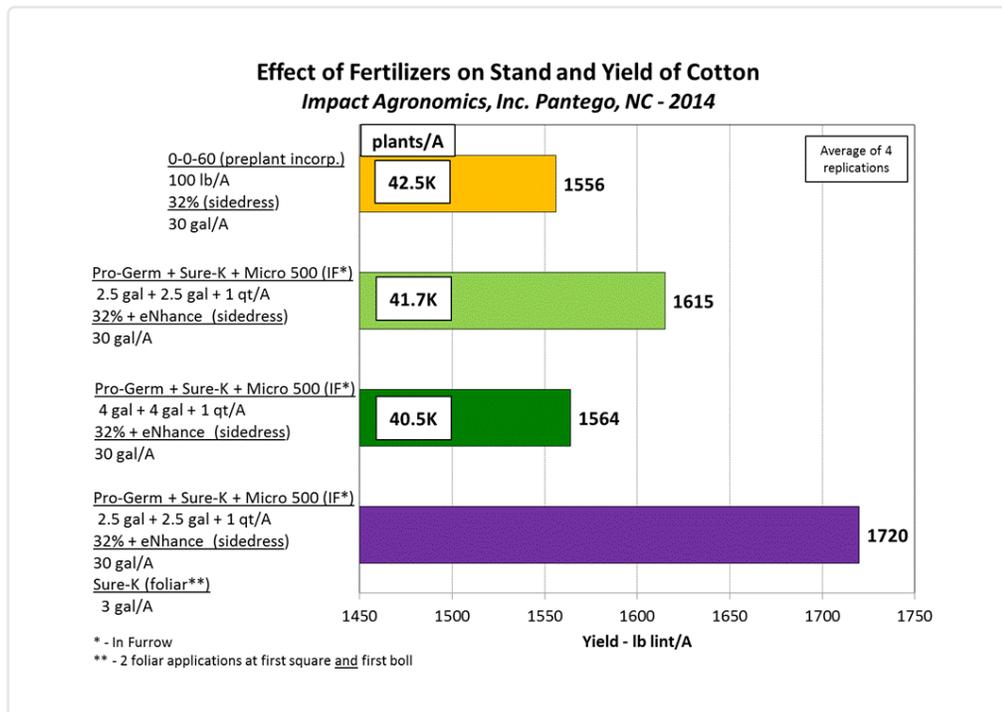
Soil Test Values (ppm):

pH:	
CEC:	
%OM:	
Bray P1:	NCDA 47
Bicarb P:	
K:	NCDA 67
S:	
%K:	
%Mg:	
%Ca:	
%H:	
Zn:	
Mn:	
B:	

Objective:

Compare effects of dry, two rates of planter applied AgroLiquid and a subsequent foliar treatment for effects on stand and lint yield of cotton.

North Carolina is a new area of plot research for AgroLiquid treatments. In furrow applications of liquid fertilizers are generally easy and effective for fertilizer placement for early utilization by plants. However cotton is sensitive to such applications, and one of the objectives of this experiment was to evaluate such rates for effect on stand and yield. Additionally, foliar application of fertilizers has generally been inconsistent for effects on cotton lint yield. Sure-K is thought to be the most effective foliar application for cotton due to potassium demand and low injury potential. In this experiment, a North Carolina NCDA soil test was partially used to determine recommendations. This method uses sufficiency ratings, and indicated best potential response from 100 lb/A of 0-0-60. However, the AgroLiquid treatment contained Pro-Germinator + Sure-K + Micro 500.



LSD(0.1): 91. CV: 4.6%

Conclusions:

- The in-furrow low rate application of Pro-Germinator + Sure-K + Micro 500 resulted in a higher lint yield than did the NCDA recommendation of potash at time of planting. (Both received similar sidedress treatment.)
- The higher rate of AgroLiquid in furrow did reduce cotton stand somewhat, and the yield was lower. This suggests that the 5.25 gal/A rate of total fertilizer in furrow should not be exceeded.
- The two foliar applications of Sure-K resulted in a 105 lb/A increase in lint yield compared to the planter fertilizer alone. This gives optimism for an effective foliar treatment for cotton, and it will be repeated in 2015.