

Fertilizer Trial: Cotton, variety "DP1646B2XF" Tifton, Georgia

What is Agrocote®?

Agrocote® is a portfolio of coated controlled release fertilizers including homogenous NPKs and single macro and micronutrients with three distinct coating technologies and longevities ranging from one to 14 months. When it comes to controlled release fertilizer, ICL Specialty Fertilizers is the industry leader. This particular trial focused on the use of Agrocote® Max (urea). Agrocote® products are designed to meter out plant nutrition over time, improving crop nutrient uptake efficiencies and increasing profit for the grower.

Trial Set-Up

Objective: Evaluate the performance of Agrocote® coated nitrogen (urea) compared to current grower standard practice (GSP) in upland cotton, potentially preventing the loss of nutrients, obtaining greater yields and ultimately improving gross profit.

Crop: Upland Cotton, variety "DP1646B2XF"

What: Agrocote® N was applied once, at planting at 100 and 75% rate of total N 100 lb/acre

GSP delivered a total of 100 lb/acre of N in two applications: at planting and side dress

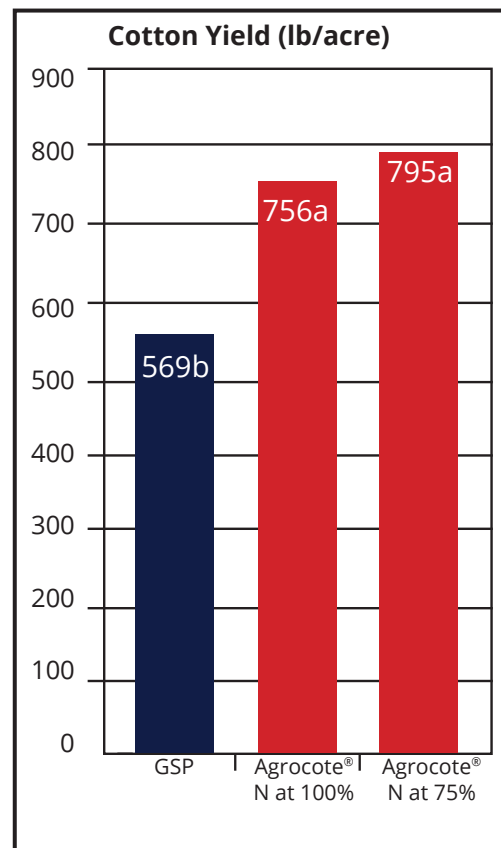
When: May 1, 2017

Where: University of Georgia, Georgia

Harvest: October 31, 2017

Soil Type: Loamy Sand

Measurements: Yield (lb/acre)



*Means followed by the same letter are not significantly different, $\alpha = 0.10$ ($n=4$).

Conclusion:

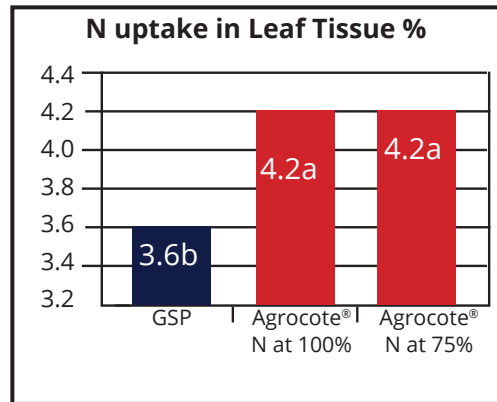
The Agrocote® treatment at 75% nitrogen rate increased yield by 39.7% compared to the GSP treatment.

With a 25% reduction in nitrogen the Agrocote® treatment increased gross profit by \$154.00 (per acre) compared the GSP.

The Agrocote® treatments provided a significantly higher percent of N in plant tissue compared to the GSP treatment.

Why Agrocote® is the Best Solution for Cotton Fertility:

- Nutrients supplied by Agrocote® are released consistently across the crop cycle. This results in better crop uptake efficiency, quality and higher yield of cotton.
- Conventional uncoated fertilizers are inefficient often at a level of 25-50% due to leaching or volatilization. Agrocote® meters out all applied nutrients evenly and predictably across crop critical stages, maintaining optimum nitrogen levels in soil solution, even following heavy rains.
- The number of fertilization applications required is decreased.
- The Agrocote® program allows growers to better utilize their time with minimized trips across fields, reduced machinery use, and most importantly, saving growers time and money.
- Proven performance year after year



*Means followed by the same letter are not significantly different, a = 0.10 (n=4).

Value Equation	GSP	Agrocote® 75% of N
Additional cost of Program (\$/Acre)	-	51.96
Total Yield (lb/acre)	569	795
Price / lb*	\$0.70	\$0.70
Income per acre	\$388.00	\$542.00
Gross Income Increase per acre		\$154.00
Agrocote® ROI		2.0

*https://www.nass.usda.gov/Statistics_by_Subject/result.php?078AE518-3EE0-32E5-B5F1-B36C88EE53D7§or=CROPS&group=FIELD%20CROPS&comm=COTTON

Attention:

Recommendations in this trial info sheet are based on local soil and/or water analyses. Please contact your local ICL Specialty Fertilizers adviser for your personalized fertilizer recommendation.