Powered by Amino-Carbon Technology® (ACT)

SOIL-PLUS™ & CROP™ Enhance Cotton Production (Arizona)

ABSTRACT

In March 1997, Rovey Farms of Glendale, Arizona, began a pilot test of Biofeed products to determine the efficacy of these products in enhancing the production and quality of cotton.

BACKGROUND

This test included 10 replicated test plots that were 10 rows wide based on 30" inch rows of Delta Pine 54-15 cotton. These plots were adjacent to plots of equal size, had identical soil type, were irrigated with the same waters, and had been farmed using the same methods, chemicals, etc.

APPLICATION

Biofeed CROP™ and SOIL-PLUS™ were used in addition to conventional fertilizers according to Biofeed's recommended cotton program that includes foliar treatment using 1 quart of CROP™ (8-16-4) sprayed over the top of the plant four times during the season every 30 days beginning at the 3-5 leaf stage, and 1 quart of SOIL-PLUS™ which was water applied four times during the season every 30 days beginning at the first irrigation after planting.

RESULTS

The non-treated plots exhibited a slower rate of maturation compared to the test plots. Chemical and salt toxicities in the non-treated plots caused deformation of the leaf structure that further contributed to reduced bole production. These non-treated plots also appeared unable to manage heat stress in spite of irrigation.

However the treated plots showed no signs of heat stress and had a broad healthy leaf structure and color. The treated plots continued to produce boles to the top of the plant throughout the complete crop cycle to defoliation.

The non-treated plots averaged 1.7 bales per acre, while the treated plots averaged 4.6 bales per acre with a very high lint quality. The cost of including CROP™ and SOIL-PLUS™ was more than paid for via increased production.