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## **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" 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.

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