

Soil Technologies Corp.
Research and Development Department



Research Report

Title: Intercept¹ Effect on Sugarcane

Location: Minas Gerais, Brazil

Principal Investigators: Natural Agroindustrias de Brasil Ltda.

Crop: Sugarcane

Date: October 2003

Abstract:

The purpose of this study was to evaluate the effect of Intercept on fields of sugarcane in transition to organic practices. The test area was 200 hectares. Yield, height, internode, and diameter were measured for the treated section and untreated control. Crop yield increased 172%, all other measures improved also; showing there is potential to increase crop production through the use of Intercept as a soil inoculum.

Methods:

The test design was done in four random sectors of 50 hectares (A, B, C, D), a total of 200 hectares. Each sector was divided into five blocks, one untreated control and four replicas of treated blocks. There were two applications of Intercept; the first at the time of planting, the second 10 days after planting. Intercept dosage was 1.2 liters per hectare for both applications in all treated blocks.

Results:

Data was collected in order to quantify the effect of the soil inoculate in four categories: yield, height, internode distance, and cane diameter. The average yield increased by 172% (Chart 1). Average height increased by 134% (Chart 2). Average internode distance increased by 141% (Chart 3) and average cane diameter increased by 127% (Chart 4).

¹Intercept is an OMRI listed soil microbial inoculant.
Intercept is manufactured by Soil Technologies Corp. Fairfield, IA USA.

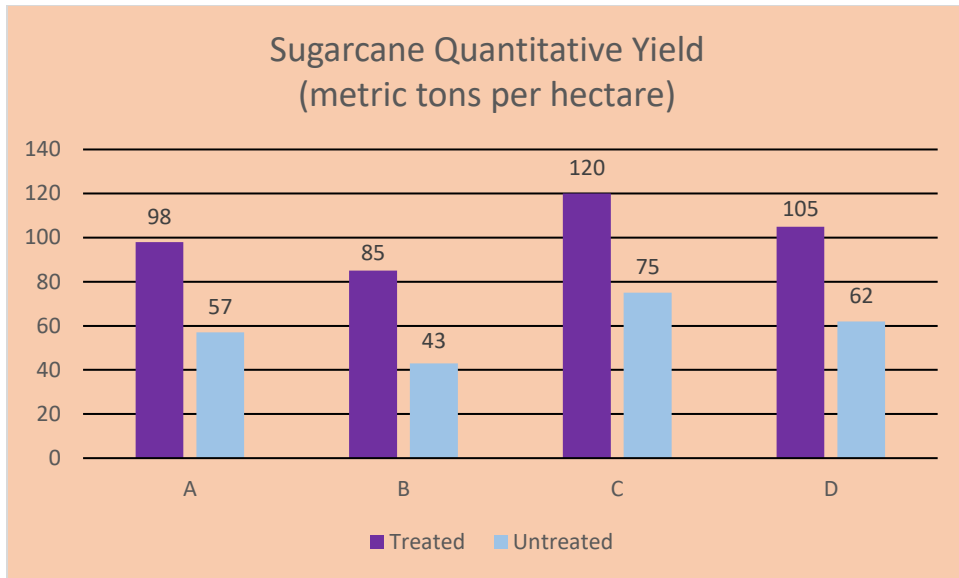


Chart 1: Sugarcane yield

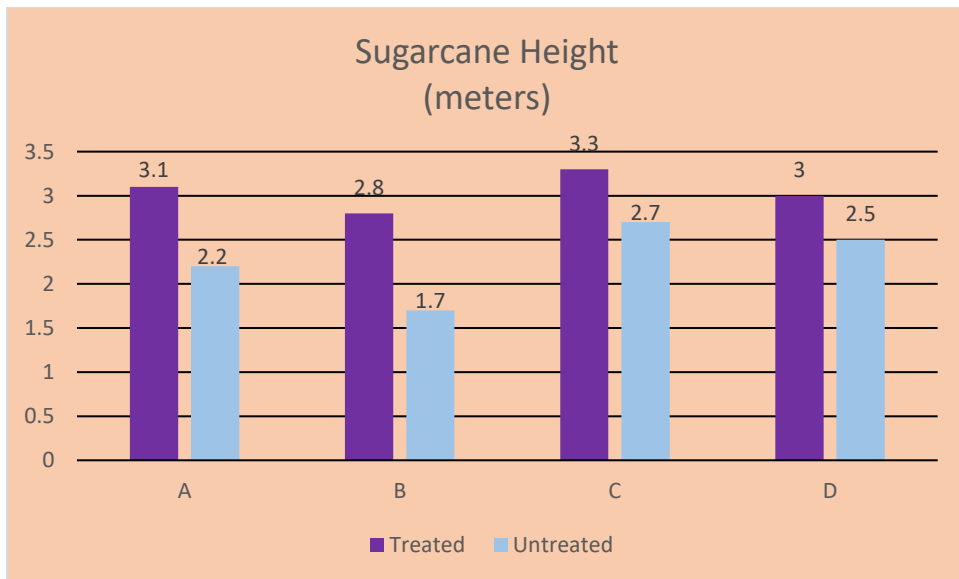


Chart 2: Sugarcane height

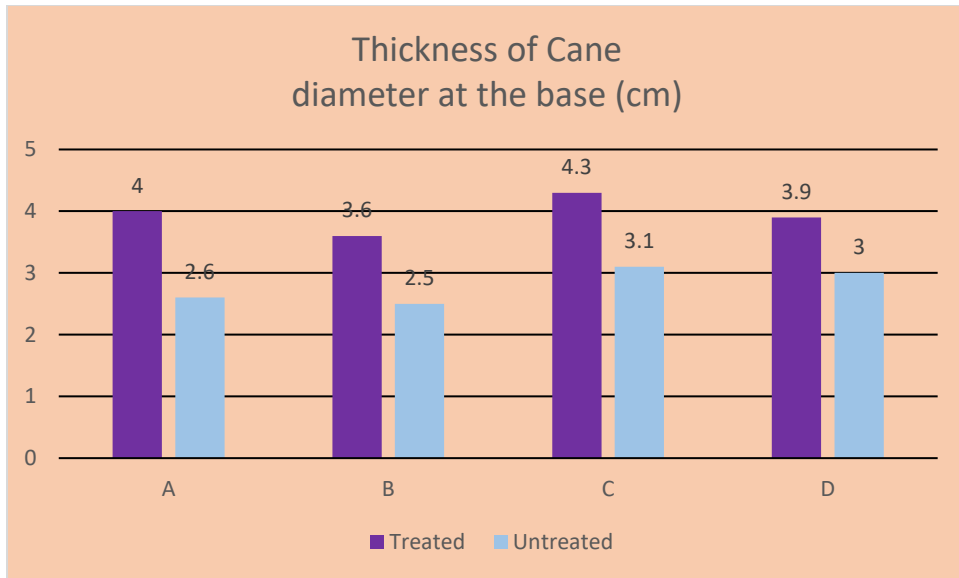


Chart 3: Thickness of cane

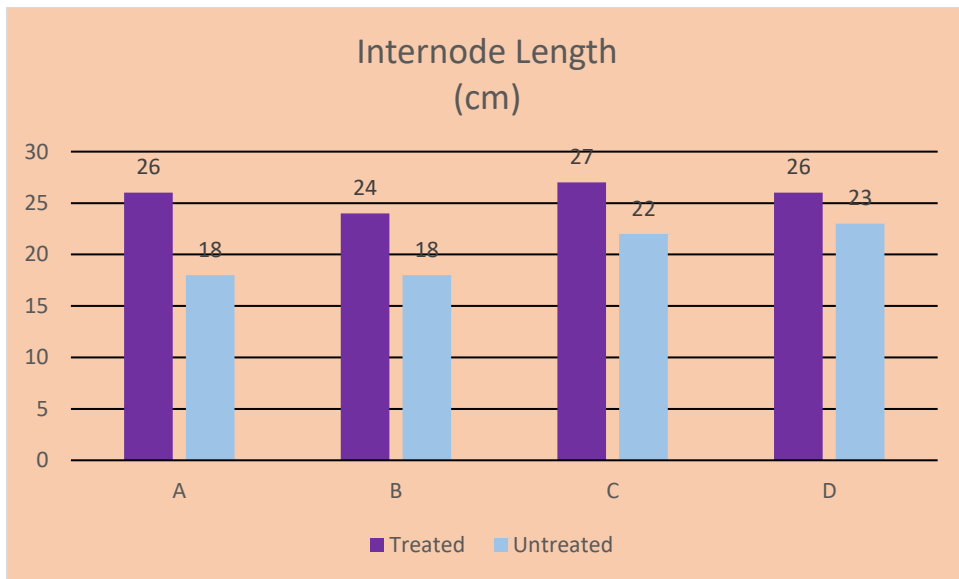


Chart 4: Internode length

Conclusions:

The field trial results of this study show that the use of Intercept as a soil inoculant has demonstrated improved results on sugarcane in terms of yield, height, internode distance, and cane diameter.