

## APPLICATION RESULTS ~ BANANA PLANTATION WITH NEMATODES INCIDENCE

### INTRODUCTION:

In banana crops there are always two types of nematodes, which affect the root growth of plants. These two types of nematodes are: Meloidogyne Sp and Radopholus Sp, the latter being the most aggressive for this crop and in this region. The habitat of these microorganisms is to enter the plant roots and feed on them and reproducing rapidly, thus ensuring the survival of the species. This infection creates less absorption of water and nutrients, causing a low plant growth, poor quality fruit, and lower production. Another major problem caused by this microorganism is that it affects the anchorage of the plant, causing it to severely lean or fall to the ground, resulting in even more plant losses. The traditional control method of this microorganism has been through the use of chemical nematicides, which in the end are pollutants, dangerous, and costly.



### OBJECTIVES OF THE APPLICATION:

It was decided to make an evaluation using Puroxi (OB) (and other proprietary ingredients), to reduce nematode populations of the Radopholus Sp type, and thus have healthier and more vigorous roots due to greater oxygenation in the soil; also, to increase the population of beneficial microorganisms in the soil by using an organic product instead of harmful, toxic chemicals.

### FIELD APPLICATION METHODOLOGY:

The preparation of the mixture using Puroxi OB was performed with a backpack of 20 litres, with 2 applications. The pH level was also adjusted. Applications are recommended to be made early in the day, between 6am and 10am.

The application of this mixture was directed to the root zone of the plant discharging of mixture into the area or periphery of the root in the ground, using a back and forth sweeping motion in 2 separate passes.

Prior to the first application, we made a nematode count with the purpose of determining a start control level. For reasons of confidentiality, the client did not want to share the data, but he did have a count of them.

The application interval of the product between the first two applications was 30 days, during which time the population count of nematodes increased. However, after the second application, the nematode count was a little lower than the control plantations. The third application was made 30 days later, resulting in a further reduction of nematode count. We can therefore determine that the product is working.

### RESULTS and RECOMMENDATIONS:

The results so far can be defined as optimistic while it has been observed that the nematode population has been consistently reduced compared to the control areas. However, it is being recommended that the implementation of Puroxi OB should be with an irrigation method, using the product at higher concentrations initially and then lowering the application to a maintenance routine, monitoring every 30 days.

### TESTIMONY:

Mr. Ivan Tovar, an agronomist, said: "The evaluation process is still ongoing and the next application during the first week of October, is expected to further reduce the nematode count."



# PUROXI (OB)

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Our products, formulations, and application methods have shown proven success with disease resistance and pest prevention, and healthier, more robust plants. This is a bacterial issue and bacteria do not like oxygen. Due to increased oxygen levels and nutrient uptake derived from our product, any fungal or bacterial issues can be prevented or eliminated. We believe that you can counteract the cost of our product by eventually cutting back on fertilizers and pesticides.

## DISCLAIMER:

The observations listed above are from specific situations, based on their own unique results and experiences. All water is different; every environment is different; every operator is different; every soil is different. And of course, each challenge of diseases or contaminants is different. We cannot guarantee you will see any specific result listed above. But what we can guarantee is that you will immediately have clean, clear, nutritional water, and in a very short time, better results than without our applications. When your plants and soil have healthy, nutritional water it's a good start. Raising the oxygen levels will further contribute to your overall production success. Application rates and methods vary from operation to operation.



## PROFILE

- Farm Name: Confidential
- Location: San Marcos, GT.
- Evaluation period: 12 weeks
- Type of farm: Banana
- Cultivation variety: Great Dwarf
- Extension Evaluation: 8 sq. meters
- Climate: Tropical Humid

*If this makes sense to you, please give us a call; we would love to have you as a customer.*

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*Caution: Do not add fertilizers in the water at the same time as you add Puroxi (OB), without doing a Jar Test. Some fertilizers may plug emitters when mixed with Oxygen. Always consult your local Distributor or us, prior to application to ensure it is done correctly.*