

PCO CHOICE INSECT & FUNGUS CONTROL IN FRUIT PLANTATIONS

Application of PCO Choice Formula for Banana Plantation.

The below information could also be an example which could be used in all domestic and exotic Fruit tree and nut Plantations. With or without using the Bags around the fruit.

INTRODUCTION:

Over the course of 11 weeks, the application of PCO Choice ä Formula as an environmentally friendly bio-insect control product for use in a banana plantation along with banana sleeves will control insects, fungi and other issues plaguing the industry.

Banana's Growth Cycle:

It takes a new banana plant approximately 11 weeks to mature; once the fruit is harvested, a new seedling takes its place and blooms within 11 weeks. Every 11 weeks a new plant is ready to be harvested.

PROBLEMS IN THE BANANA & PLANTAIN PLANTATION:

Two types of diseases were identified to have infected South American plantation:

1. ***Cochinilla***—a microscopic insect, which crawls up the stalk of the banana plant. These insects are attracted to the sweetness of the fruit and/or fungus. They attack both the leaves and fruits. Destruction of the plant eventually takes place due to thick infestation.
2. ***Sigatoca***—an airborne fungus which attacks and attaches itself to the bottom of the leaves and eventually kills the plant.

Banana trees which are indicating a Fungus infestation have fewer leaves than normal; the leaves look predominantly yellow, brown, deformed and crippled.

Due to the many toxic pesticides and insecticides used over the years on plantations, as well as most others, the natural defense system of the plant have been weakened, if not destroyed. Secondly, the insects and fungi that commonly affect these plants have become immune to the common toxic pesticide treatments.

APPLICATION OF PCO CHOICE PROTOCOL:

PCO CHOICE is sprayed onto the stalk of plant, leaves, fruit, and the soil around the tree. PCO CHOICE needs a large amount of water when applied properly. It is recommended that a truck mounted sprayer using a wand or apparatus which can discharge large amounts of water at one time be used for application to guarantee the canopy effect. Tractors with the fan effect apparatus is highly recommended. If truck sprayers are unavailable it is important to note that a backpack or other hand held spraying apparatus must be used using the correct amount of product which will saturate the foliage. This recommended protocol will not only get the stalk good and soaked it will also allow the applicator to drench spray the foliage on both top of leafs and bottom of leafs till drip point

DILUTION RATE, DOSAGE& APPLICATION:

The recommended dosage for treatment for insects and fungi is (1) one gallon PCO Choice concentrate to 4000 gallons of water to be applied every 15 days. With a mature plantation of trees use 200 to 300 gallons per acre giving the farmer approx. 15 to 20 acres of ready to use product.

In row crops 1 gallon concentrate to 2000 gallons water use 100 to 200 gallons per acre, coverage area should be around 10 to 20 acres per gallon of concentrate
Application should be repeated if heavy rain occurs.

NEW PROTECTION WHICH INCLUDES THE BANANA SLEEVES:

Once the plantation has been sprayed with PCO Choice, we would then apply the Banana sleeves to each bunch to protect the bananas from insects. Not only will they protect the fruit from being infested with insects they will also neutralize any bacteria, mildew and fungus issues associated with the fruit. Although the bags play an important role in the neutralizing of insects on the banana's continued use of PCO Choice every 15 days will continue to neutralize all other issues associated with fungus, bacteria's and diseases.

To date aerial fumigation has been used to apply insecticides, fungicides and pesticides needed to control fungi and insect infestation. However, this effort has been unsuccessful as aerial application does not penetrate the canopy of the plants. Usually, such application does not allow solutions to reach the bottom of the banana leaves.

RESULTS:

After only 30 days from the initial application of PCO Choice, the Banana trees should exhibit dramatic transformation:

1. Instead of the fewer leaves, there should be an abundance of leaves.
2. The leaves should look very green and healthy and grow far larger in size, thus, producing larger canopy.
3. There should be no sign of fungus or insects which should be controlled and neutralized.
4. The trees should start producing larger and healthier looking fruits

ADVANTAGES OF USING PCO CHOICE LIQUID FORMULA AND BANANA SLEEVES.

- * Increases the immune system of the plant.
- * Safely reduces the plant and fruit smell which attract insects; thus controls infestation.
- * Naturally repels insects and controls infestation...
- * some farmers have seen an increase of leaves from 9 to 13; thereby increasing the size of the bananas.
- * Increases the size of the leaves to produce a better protective canopy, one, which increases the health and size of the bananas.
- * Not only are larger leaves a sign of healthy plants, but, they enhance the photosynthesis process a major source of plant nutrition.
- * Other applications around the base of the stalk should also eliminate and neutralize root rot, maggots, worms, beetles, nematodes and aphids. This capability enhances the plants opportunity of more protected and healthier growth.
- * All of the above benefits lead to increased yield and profitable production.

CONCLUSION:

PCO CHOICE AND THE BANANA SLEEVES have been recognized as an effective and safe alternative to the insecticides, pesticides, fungicides used today. Although PCO CHOICE works as an insecticide, pesticide, fungicide, yet, it does not pose any threat of toxic hazards to water resources, soil, workers, farmers, surrounding communities, pregnant mothers, infants, elderly, animals nor to the environment as a whole.

PCO Choice is a safe and effective alternative to currently used insecticide, pesticide, fungicide and fertilizer, because it is plant-based and natural. Hence, it is more difficult for pathogens and insects to build immunity to PCO Choice.