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## ENHANCE YOUR BANANA PRODUCTION WITH **+ Bactivate** PRODUCTS

### RESULTS FROM FARM APPLICATIONS

**+ Bactivate**

**+ Bactivate Liquid**

**BactivatePlus<sup>+</sup> Liquid**

**Bactivate  
SeaweedSolution<sup>+</sup>**

**+ Bactivate  
BioBoost<sup>+</sup>**

The Bactivate Range of products are used as allowable inputs in Organic Farming Systems.



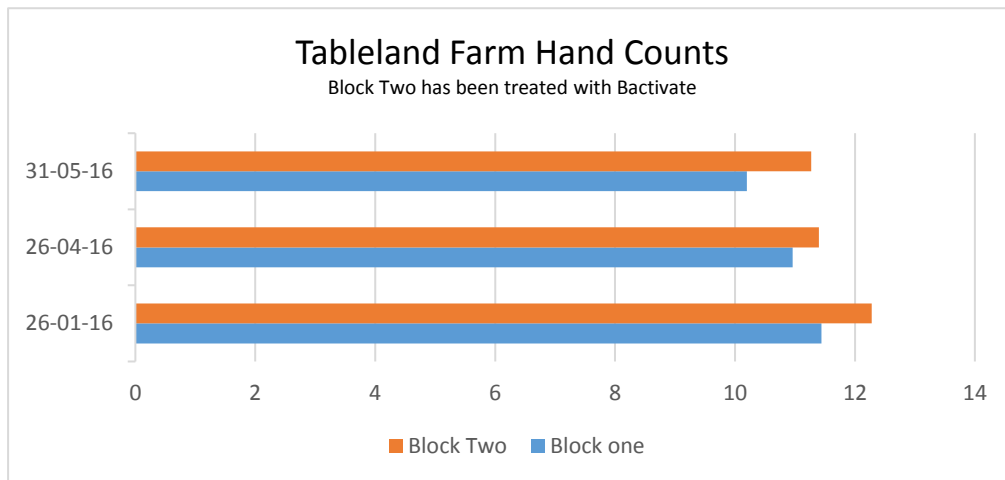
# SweeterSoils + Bactivate

## GRANULAR MICROBIAL SOIL CONDITIONER

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Several trials have shown that Bactivate treatments in Cavendish Bananas increase production with  
**Positive Cash Flow Outcomes.**

### Cost Benefit comparison in Bananas using Bactivate program



The increase in Bunch size in Block Two compared with Block One is statistically significant over the 5 month period that data was collected. Over the 129 bunches assessed during this period, the difference in hand count between untreated and treated was 11.0597 to 11.58065, an increase of 0.5268 hands. A **4.76% increase in production** in the Bactivate treated Block Two.

### Cost Benefit analysis

Calculations using a 1500 bunches/Ha. Weight of 0.5268 hand calculated at 2kg.

An Extra 3000kg / Ha of Banana production.

Based on current prices of \$18/carton (15kg).

**Increase in production = an extra 200 cartons/ Ha x \$18/carton = \$3,600/Ha**

**This is a 4.76% increase in production**

**Value of extra Production - \$3,600.00 / Ha / Yr.**

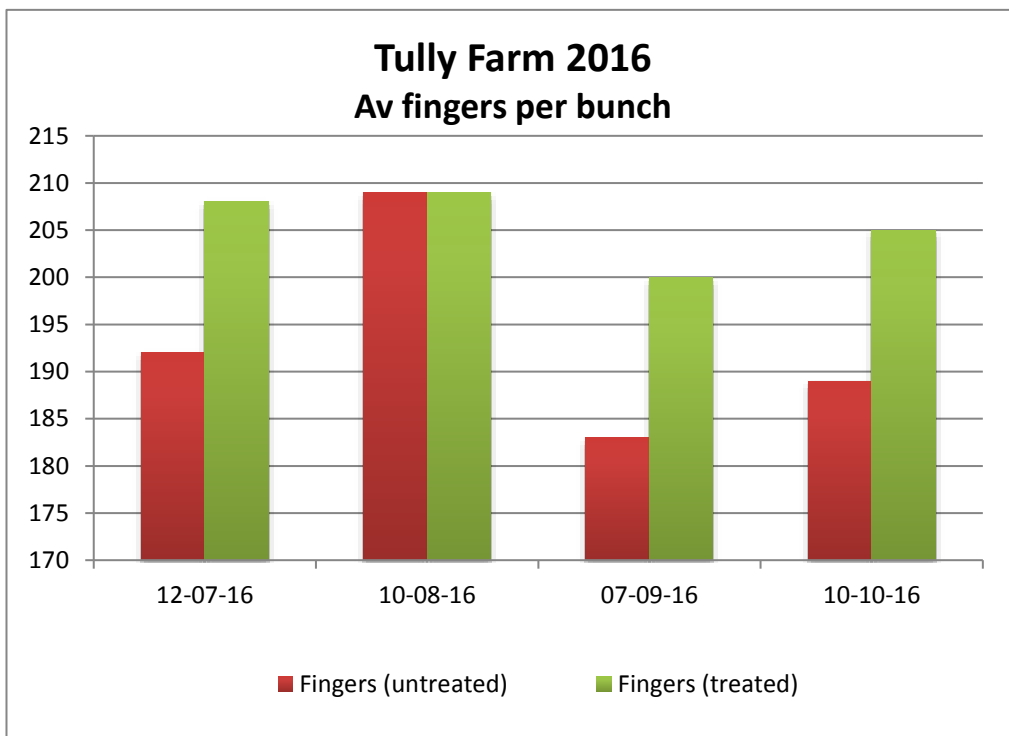
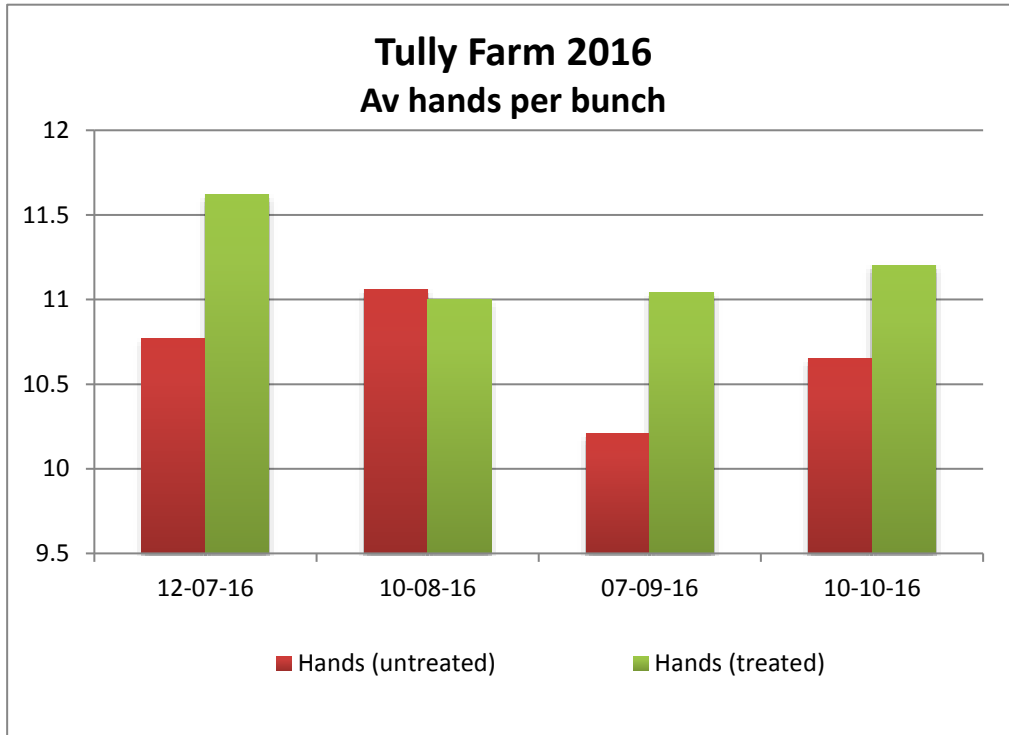
**Cost of Bactivate programme - \$1,617.00 / Ha / Yr.**

**An increase in Cash Flow of - \$1,983.00 / Ha / Yr.**

# + Bactivate



**Bactivate** is used in conjunction with **Bioboost +** and **Bactivate Seaweed** to achieve consistent production and economic gains.



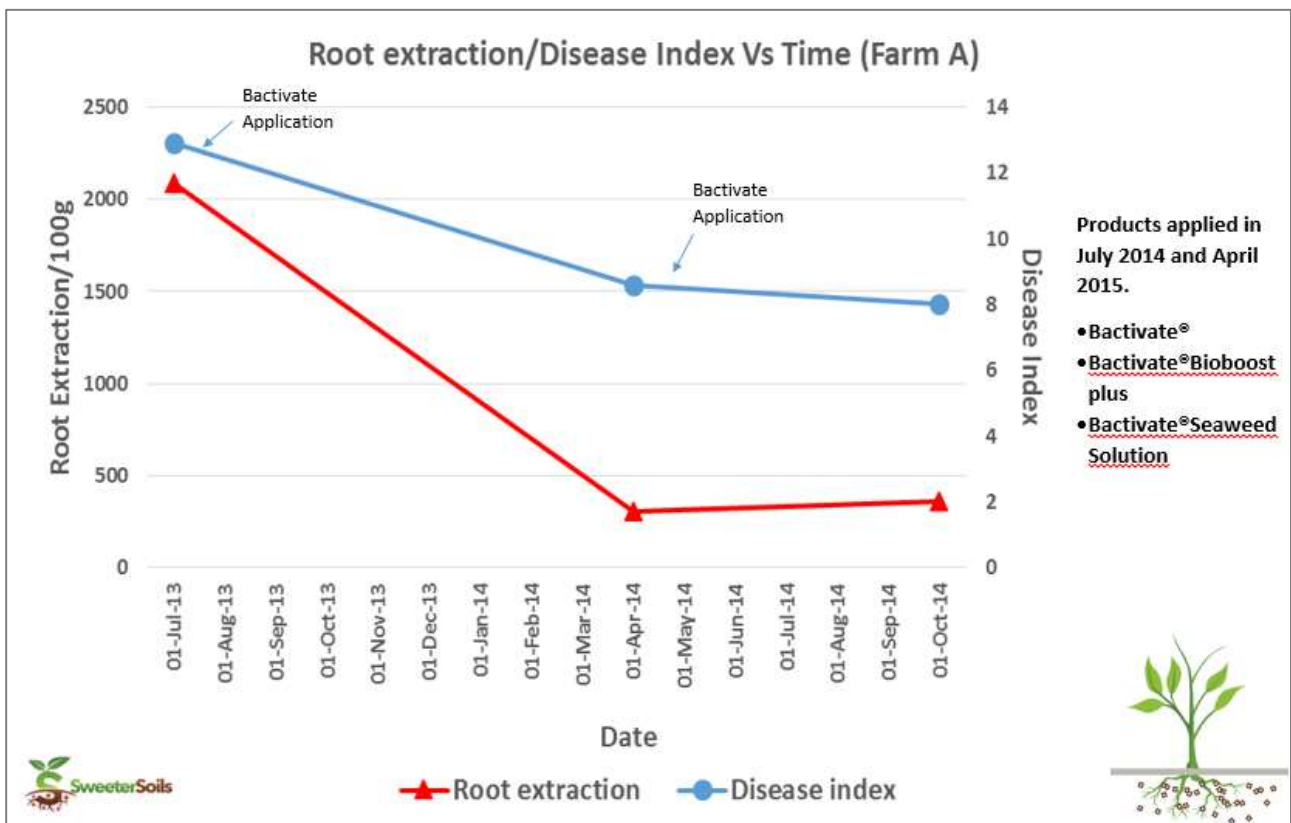
A number of Cavendish Banana blocks that contained high levels of Burrowing Nematode have been treated with **Bactivate** as well as **Bioboost +** and **Bactivate Seaweed**.

*“Initially we applied Bactivate to try and manage nematode issues; 6 months later we saw reduced nematode infection levels; as well as noticing the trees had thicker, deeper roots with a mass of feeder roots. The trees were also more vigorous and deeper set in the soil, as well as an increased bunch size”*

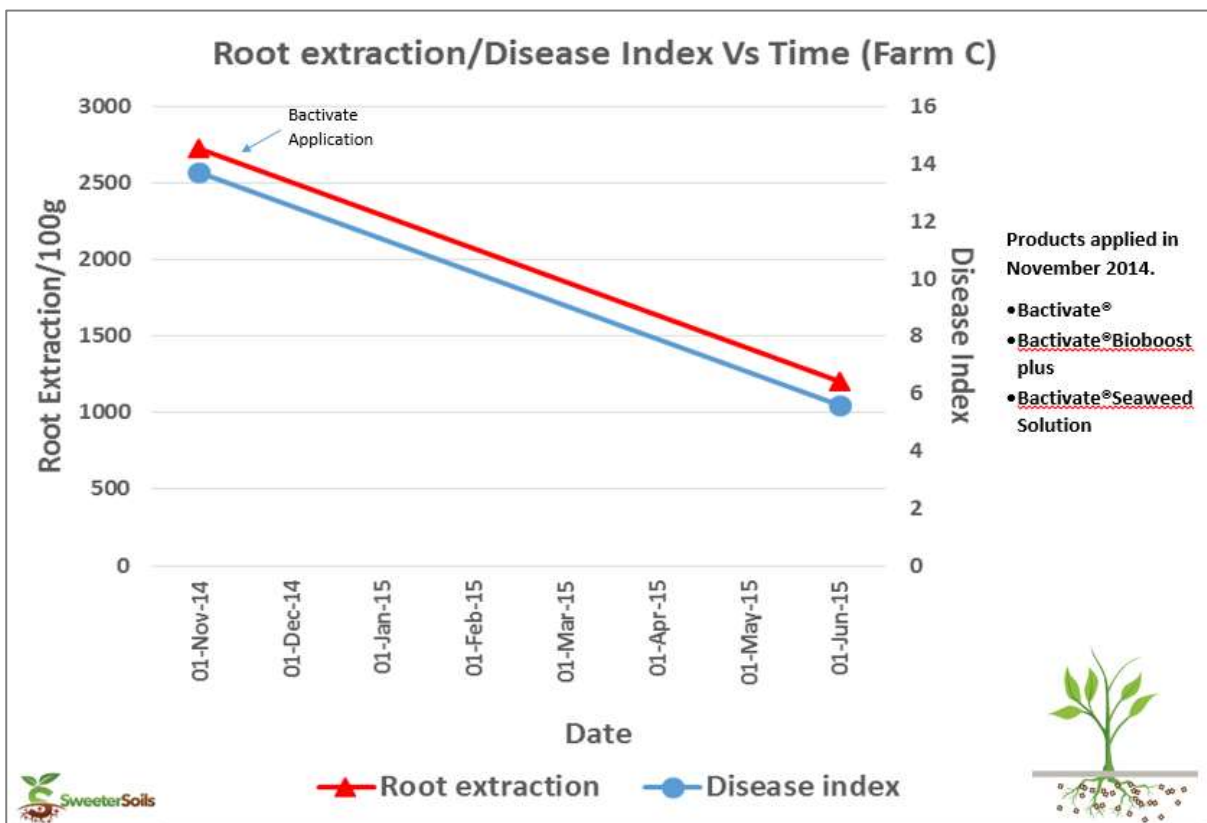
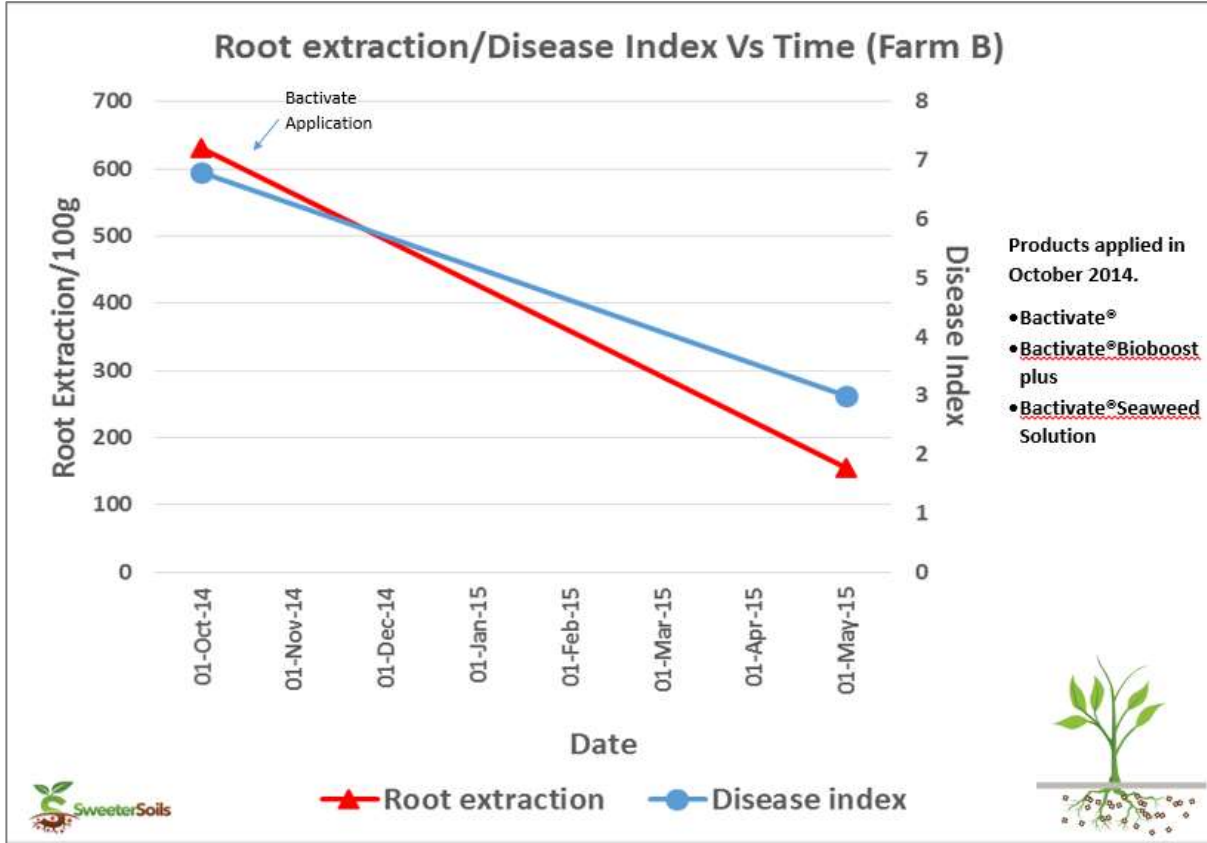
Dean Sinton (Martyville Banana farmer)

The graphs below demonstrate that burrowing nematode levels reduced markedly following Bactivate applications.

### BURROWING NEMATODE DYNAMICS IN CAVENDISH BANANAS UNDER BACTIVATE® PROGRAM



**BURROWING NEMATODE DYNAMICS IN CAVENDISH BANANAS UNDER BACTIVATE® PROGRAM**



A number of Cavendish Banana blocks that have historically suffered from soil diseases such as *Erwinia* have been treated with **Bactivate** products. The results have been excellent as stated by Mr Rohan Collins, Laurelgold Pty Ltd, Nerada.

Rohan noticed the *Erwinia* issues had completely disappeared; trees on the block would often only last 3 years before being needed to be ploughed out and replanted. Rohan commented *“Some of the areas of the farm were notorious for Erwinia (corm rot) problems. Since using the Sweeter Soils approach, I haven’t had a single tree with symptoms.”*

Rohan Collins, Laurelgold Pty Ltd

## BACTIVATE IN CAVENDISH PLANT

Applying **Bactivate** as well as **Bioboost +** and **Bactivate Seaweed** at planting has resulted in major increases in tree and bunch size. The following ratoon is also more advanced, yielding larger bunches.

Plant bunches on average have 1 extra harvestable hand. The bunch and fruit shape is more like a ratoon bunch – they cannot tell the difference between plant and ratoon bunches in the packing shed!

Bunches from untreated plant



Plant treated with Bactivate





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*“With the help of Sweeter Soil, I was able to achieve a remarkable plant crop the likes of which I have not seen for 30 years. I have had to redesign and strengthen my packing system to cope with the bigger bunches.”*

Rohan Collins, Laurelgold Pty Ltd

*“We have been using Bactivate and Bioboost Plus in our plantings for the last four years. The Plant bunches are bigger, and the bunch and fruit shape are like ratoons. They cannot tell the difference in the packing shed.*

*Our 1<sup>st</sup> Ratoons are bigger and better as well.”*

Vince and Anthony Cavallaro, Cavallaro Farming, Upper Daradgee



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## **+** Bactivate Liquid ONE SHOT BIOLOGICAL TREATMENT

**Bactivate Liquid** is a one shot Microbial soil conditioner that has resulted in increased bunch size and production when applied to Cavendish Bananas. Production increases arise from smaller trees in the crop increasing in tree and bunch size, lifting productivity across the crop.

**Bactivate Liquid** contains 3 soil microbes as well as Bioboost +, Bactivate Seaweed and some nutrient to enhance biological activity. It can be applied either by boom or through irrigation.

Trial results shown below are similar to those achieved with Bactivate applications i.e. an extra 200 cartons / Ha. / Year. Given that Bactivate Liquid is cheaper (\$720.00 / Ha / Year) the economic benefit is Higher.

**\$2,880.00 / Ha / Year.**

### INCREASED BUNCH SIZE USING BACTIVATE LIQUID

