



# MULTIPLYING PROFITABILITY FOR COFFEE CROP CULTIVATION

Asia & Hawaii

24-72hr Plant-Integrated Bioconversion | Zero Synthetic Inputs, Pure Bio-Catalysis

Official Website: <https://www.iBioStim.com>

# Coffee Production

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**We provide innovative agricultural solutions for coffee cultivation across Asia and Hawaii, leveraging farm-proven (Asia, EU & US) proprietary organic commercial inputs to multiply profitability. Our approach harmonizes with plant biochemistry to stimulate natural growth processes, resulting in:**

- Healthier, more robust crops with improved nutrient uptake from soil and foliar treatments
- Reduced dependence on agrochemical inputs throughout cultivation cycles
- Sustained high 1.76x larger green beans (dry mass) and rich (elevated) organoleptic taste throughout entire production life cycle annually.

By optimizing plants' inherent biological mechanisms rather than overriding them, we enable growers to achieve superior crop performance while minimizing synthetic input costs.

## Highlights

### 1. Negating Transplanting Shock

10 foliar applications comprised Mr Carbon at 300x dilution factor (0.33L top up to 100L) to build sugar content at cellular level.

### 2. Boosting Sugar Content

Raise brix in plant/berry by another 4-5% to elevate fermentation quality for organoleptic improvement.

### 3. Increase Green Bean Size (Dry Mass)

Elevate green bean size (dry mass) from 0.156g/bean to 0.274g/bean.

# Our Bio-Enzymatic Plant CPR Process

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Our revolutionary approach follows a three-step process that transforms plant health from the inside out:

## 1. CLEANSE

A 72-hour phytochemical detoxification that removes accumulated stress compounds and prepares the plant's systems for optimal function.

## 2. PRIME

Vascular-system micronutrient infusion that delivers precisely calibrated nutrients directly to where they're needed most, bypassing traditional uptake limitations.

## 3. REGENERATE

Activation of the plant's native microbiome to achieve 1.3x nutrient density, strengthening natural defence mechanisms and enhancing growth potential.

### Coffee Plantation Owner:

“I am satisfied with 1.76x larger cherries at harvest and strong vitality. Natural leaf rust suppression is a surprise bonus for sustainable coffee cultivation.”

# Activity

## Plant Health

Our organic blends optimize the natural balance between plant growth and self-defense systems, creating crops that stay fresh longer and taste better – helping every type of plant reach peak performance.

## Lowering Activation Energy

Our enzyme-powered formulas work like natural spark plugs for plants. By helping fertilizers break down faster and more completely, they:

- Make nutrients 62% more usable by crops within 1-3 days
- Work equally well with any fertilizer type
- Maintain effectiveness in droughts, floods, or temperature swings

Unlike treatments relying on live microbes (which can die or change behaviour), our bioenzyme solutions deliver consistent results season after season.

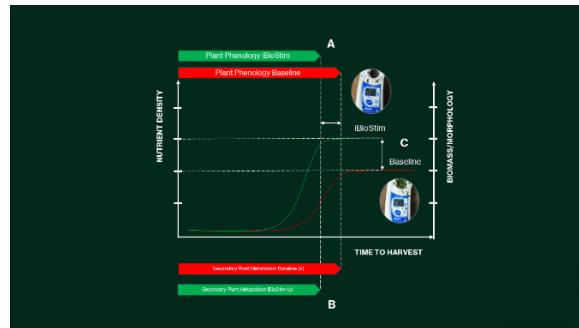


Figure 1. Comparing effects of traditional organic/conventional food production baseline against **iBioStim™** regime, showing reduced time to harvest with elevated nutrient density and biomass.

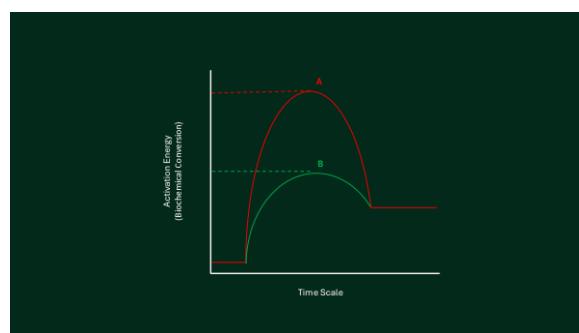


Figure 2. Comparing reduced activation energy barrier for biochemical conversion of fertilisers in an endothermic reaction on **iBioStim™** regime, giving rise to physiological modification onset within 24-72hr after first application.

## Methods (Soil Cultivation)

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A combination of 2 commercial products is used for coffee cultivation, namely, Mr Carbon and Junior Plus on soil cultivation, on top of existing fertigation program.

### 1. Volume of iBioStim™ Concentrate

Prepare Mr Carbon (0.5L) and Junior Plus (0.33L) in a 100L water tank on the same day of application. Top up to 100L using clean water.

### 2. Application Frequency

Apply every fortnight soil and foliar spray, at 1-3L per tree (age dependent), after transplanting from nursery into the field.

# Triple-Impact Solution

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**iBioStim™** integrates triple-impact coffee solution for fortnightly application, targeting yield and nutrient density (organoleptic taste) improvement through total integration.

By engineering both yield and nutrient density improvement at the biochemical level, we eliminate harvest security risk factors for elevated profitability across the entire value chain.

## Key Benefits

### 1. Severe Precipitation Resistant

Compensates for plant stress by supplementing high quality amino acids and micro nutrients using Junior Plus.

### 2. Cellular Regeneration

Effect plant repair at the cellular level to restore primary metabolism (using glyphosate as a litmus test).

### 3. Heat Weather Resistant

Build complex carbohydrates in-plant to negate effects due to mercury rise above 30 °C (until 35 °C).

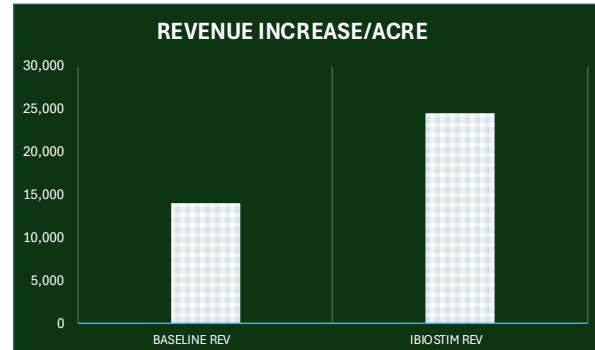
# Economics

Profitability is key to long term sustainability and the ability to measure the material impact of coffee pepper production on bottom-line is crucial to continued success. Data is presented in the first principles (based on actual farm performance) in Asia and Hawaii as follows:

Hawaii

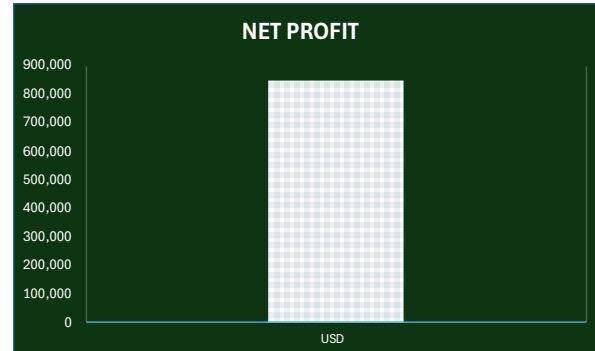
## Revenue Increase Per Acre

On a planting density of 1204 tree per acre and a wholesale price of USD 43/kg\* (green bean), additional income of USD 8.5K is achieved.



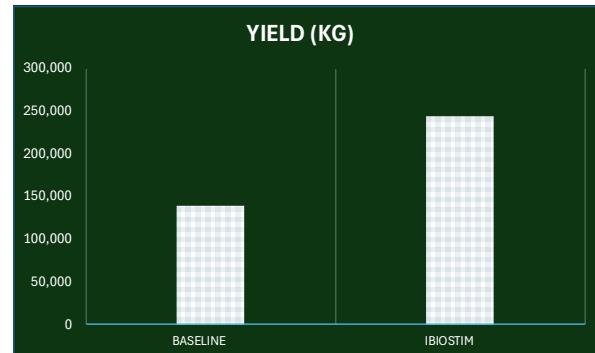
## Net Profit Per 100 Acre

Net Profit on an annual basis is equivalent to USD 849K.



## Yield Improvement 100 Acres

Total yield improvement is equivalent to 105MT.



\*USDA (2023-2024, Hawaii)

# Value Chain

## Territory Specific Returns

**iBioStim™ Coffee Production Impact Dashboard**  
Quantifying the commercial impact of iBioStim™ on Hawaiian coffee production (Green Basis)

Commercial Impact Value Chain Economic Impact Cash Flow Projection Price Forecast Inventory Flow Coffee Phenology Calculations Packing List

**Before & After: iBioStim™ Impact on Hawaiian Coffee Economy**

**Traditional Production**

**\$66.3M**

Annual Farmgate Value (2023-2024)

- Average yields: 630 lbs/acre (green)
- Coffee berry borer losses: 15-30%
- Limited quality premiums
- High input costs per pound
- Farm profitability challenges

**WITH iBIOSTM**

**\$116.4M+**

Projected Farmgate Value

- Improved yield: 1,100 lbs/acre (green)
- Reduced pest/disease impact
- Premium quality positioning
- Lower cost per pound produced
- 20-40% ROI for farmers

**Economic Impact Comparison**

Metric	Before iBioStim	With iBioStim	Improvement
Average Yield (lbs/acre green)	630	1,100	+75.8% ↗
Farmgate Value	\$66.3M	\$116.4M	+75.8% ↗
Farmer Profit Margin	5-15%	20-35%	+150% ↗
Jobs Supported	5,000	5,800+	+16% ↗
Export Value	\$29M	\$85M+	+75.8% ↗

**Economic Impact Visualization**

**Value Chain Enhancement**

- **Production**: 75.8% higher yields per acre
- **Processing**: More consistent bean size and density
- **Marketing**: Premium positioning with quality differentiation
- **Export**: Higher value per pound in international markets

**Your Farm's Economic Impact**

75.6% Yield Increase	404.4% ROI
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Annual Profit Impact: \$842,467  
Based on your farm inputs

**Update Inputs**

iBioStim™ | www.iBioStim.com  
HS Code for all products: 3101.00.0000

## 10-Year Cash Flow

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**10-Year Cash Flow Projection**

**Cash Flow Parameters**

Expand in Year 2 (Double Investment)

Annual Price Increase %: 6.8  
License Levy %: 11

Recalculate  Update Base Inputs

**Cash Flow Summary**

10-Year Revenue:	\$852,451,244
10-Year Product Costs:	\$52,500,000
10-Year License Levy:	\$93,769,637
10-Year Net Cash Flow:	\$706,181,607
Average Annual ROI:	134.5%

**Key Metrics**

\$71,042,128 Year 3 Revenue	\$81,032,356 Year 5 Revenue
1 Payback (Years)	\$453,117,440 NPV (%)

**Detailed Cash Flow Table**

Year	Acres	Yield (lbs/acre)	Coffee Price (\$/lb)	Revenue	Product Costs	License Levy (11%)	Net Cash Flow	Cumulative Cash Flow
1	2,500	1106	\$22.52	\$62,283.564	\$5,250,000	\$6,851,192	\$50,182,372	\$50,182,372
2	2,500	1106	\$24.05	\$66,510.846	\$5,250,000	\$7,317,073	\$53,951,773	\$104,134,145
3	2,500	1106	\$25.69	\$71,042.128	\$5,250,000	\$7,814,634	\$57,977,494	\$162,111,639
4	2,500	1106	\$27.43	\$76,872.993	\$5,250,000	\$8,346,029	\$62,276,963	\$224,388,602
5	2,500	1106	\$29.30	\$81,032.356	\$5,250,000	\$8,913,559	\$66,868,797	\$291,257,399
6	2,500	1106	\$31.29	\$86,542.556	\$5,250,000	\$9,519,681	\$71,772,875	\$363,030,275
7	2,500	1106	\$33.42	\$92,427.450	\$5,250,000	\$10,167,020	\$77,010,431	\$440,040,705
8	2,500	1106	\$35.69	\$98,712.517	\$5,250,000	\$10,858,377	\$82,604,140	\$522,644,846
9	2,500	1106	\$38.12	\$105,424.968	\$5,250,000	\$11,596,746	\$88,578,221	\$611,220,606
10	2,500	1106	\$40.71	\$112,593.866	\$5,250,000	\$12,385,325	\$94,958,540	\$706,181,607

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## Field Performance

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<p>NURSERY @ Day 7 (One Application) New Growth</p>	<p>NURSERY @ Day 21 (3 Applications) Expanding and Thickening of Leaves with Elevated Chlorophyll Content</p>

## Field Performance





# JUST BETTER

Creating Profitability Across The Entire Value Chain

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