

SUCCESS STORIES

Case studies & supporting documents
by GFA and VRM Biologik



Subheading

THE WHY

- ✓ Synthetic fertilisers block nutrient absorption, with plants using only 40%, wasting resources and \$\$\$.
- ✓ Harnessing endemic soil microbiology unlocks bound nutrients, delivering the best ROI in a biological system.
- ✓ Increasing soil organic matter boosts soil carbon and CEC, maximising nutrient uptake—exactly what HumiSoil and XLR8 Bio do.



THE BIO-TECH

HUMISOIL®

- Humus
- Carbon
- Hydrosynthesis

XLR8®BIO

- Endemic Biology
- Unlocks nutrients
- Nitrogen Fixing

BIO-DEFENDER

- Balances system
- Defends against fungal blooms



SUGAR CANE, BABINDA

We face a global challenge in ensuring food security while protecting the environment, with responsible plant nutrition and nutrient use efficiency (NUE) emerging as key strategies. Studies indicate that crops use only about 50% of applied nitrogen, leading to environmental loss and reduced farmer returns



Reduced N by 50% | Increase CCS 12.5 % – 13.5%

I've wanted to find an economically viable way to reduce costs and increase yields in cane. Given the increase in CCS and little variability in biomass, I'll be continuing with XLR8 Bio well into the future and am excited for what is next.

Scott Johnson - Babinda

The Solution:

At the first ratoon stage, N was reduced by 50% and 150l/ha of XLR8 Bio was applied to T1. This was done side by side a control zone (T2) where the recommended rate of 120kgs N was applied only.

The Outcome:

While the biomass of T2 was slightly higher at 85t/ha compared to T1 at 84.5%, the CCS in T1 was significantly higher than T2 at 13.5% and 12.5% respectively.

[READ MORE](#)

ORGANIC DUBOISIA – KINGAROY

Situated in the Kingaroy region, this corporate medicinal herb grower was seeking a way to address declining alkaloid yields, rising tree death and the significant influence of diseases and pests while saving money.



100% Yield Increase | 95% Pesticide Reduction

In the last three years, we have recycled our crop residues through Groundswell® to make our own HumiSoil®... we applied HumiSoil®, XLR8® Bio and Bio-Defender®... the results we received in the first year were fantastic.

Nino Atanasov, Senior Agronomist

The Solution:

**Application of HumiSoil® made from organic residues available on site combined with sources available locally using the Groundswell® process, XLR8® Bio and Bio-Defender®.
6t/ha of HumiSoil and 15lts XLR8 Bio after harvest and fertilising.**

The Outcome:

**100% yield increase in 1 year
> 95% pesticide reduction
> 30% fertiliser reduction**

PAPAYA – MAREEBA

This 200 hectare property has faced numerous challenges over the past 6 years including pest pressure wiping out 70% of the crop, to 90% being lost to erosion due to flooding just 5 years later. This trial was conducted to demonstrate the ability of improved soil structure and soil carbon can help prevent such devastating loss in the future.



30% Reduction in Fert | 50% decrease in Pesticides

After facing so many climate related challenges, now more than ever we realise that soil health is the first line of defence and we need to do more. We've partnered with GFA to build a solid, resilient farm and improve our sustainability story along the way.

The Solution:

Cover crops on fallow blocks including green manure with XLR8®Bio to increase soil organic matter. XLR8®Bio, Bio-Defender and HumiSoil® have been applied at all stages of the crops lifecycle.

The Outcome:

30% reduction in fertiliser
50% reduction in pesticides
Reduced irrigation

This trial is on-going but after just 12 months is looking very promising

BARLEY – WAGGA WAGGA

Across this sprawling 800 hectare wheat and barley operation in the Riverina region, the owners sought to implement an alternate treatment regime that would see them reduce synthetic inputs and rebuild soil. Their primary objective was to ensure there was no decrease in yield through application of a different approach.



35% Increase in grain | Double Brix at 11.8%

These programs stimulate hydrosynthesis in dry soils. Hydrosynthesis: manufacture of water from its essential components, hydrogen and oxygen, during photosynthesis by plants and by photosynthetic bacteria.

The Solution:

Reduced fertiliser application during ground preparation and application of select products from the XLR8® range of agricultural products - most notably XLR8® Bio and XLR8® P.

The Outcome:

**35% Increase in grain yield
Significant root development
Double standard brix reading of 11.8%**

INTENSIVE VEGETABLE FARM – BURDEKIN

In a bid to improve yields and reduce inputs, this Burdekin farm concentrated their efforts in building soil carbon to increase nutrient efficiencies and improve water management in soil. Through increasing soil organic carbon, they had great success and improved the quality of their produce, reduced fertiliser inputs while increasing yields by 20%.



20% Yield Increase | 38% Fert Reduction | 258% Increase in P | 15.49t/ha increase in Carbon

Over the three years of conducting the trial, I have been surprised at the rate in which we were able to reduce our fertiliser inputs while increasing yields. While in the first year we saw a yield increase of 37%, our inputs were slightly higher. Across the 3 years we reduced inputs by 38% and increased yields by 20%.

• Anonymous -

The Solution:

Application of XLR8®Bio at a rate of 150l/ha in conjunction with XLR8®N and XLR8®ca at 10l/ha respectively. Harvested crops were processed into HumiSoil® and applied at 2t/ha. This trial was conducted over 3 year period.

The Outcome:

Increase in yield (av 20%)

Available P +258%

Water holding at sample + 143%

Saving in Fertiliser P (-45%) N (26%)

Total Organic Carbon 0.35% - 1.13%

LEMON MYRTLE – PADDY’S GREEN

Located just outside Mareeba, QLD, this organic lemon myrtle farm is challenged in a number of ways. From managing neighbouring spray drift, to pest pressure and low soil carbon. The purpose of this trial is to firstly improve soil carbon and see a visible improvement in plant health, to secondly seeing the increase in available p with a reduction in fertiliser by 30%.



Immediate improvement in plant health |
Increase in plant brix

Being an organic grower and exporter of lemon myrtle, it's an incredible balance to build soil biology while ensuring there's none present on the leaves.

We commenced a 3 year trial with GFA in 2024 and are already blown away with the results.

Brad Moulten - Operations Manager

The Solution:

Application of 75l XLR8®Bio per hectare p/a and 10tonnes / ha of HumiSoil®. Applications were split in 2 over a 12 month period. Now commencing fert reduction by 30% in trial blocks vs control (no treatment, normal fert application).

The Outcome:

This is an ongoing trial but after just 6 months and half the rate of application, we saw a significant improvement in plant health and resilience. Yield has also increased substantially.

BEEF CATTLE – DRILLHAM SOUTH, QLD

Sturrock's Grazing, now a third generation cattle feedlot operation on 10,000 hectares, was initially seeking a program to address combustion of their stockpiled organic material (manures, spoilt feed and old pen bedding), and to manage ammonia generated in pens. Riley and Duncan were also keen to use available manure to improve overall soil quality across their property, looking specifically to enhance quality of available grasses.



Increase fodder brix from 8 – 14% | Double carrying capacity in 2 years.

We are just noticing lots of natives, like this leafy native millet, coming back. I can hardly ever remember seeing this grass.

“We’re grass growers first, cattle farmers second”

Duncan Sturrock,

- 2nd Generation Cattle Farmer

The Solution:

Bio-Defender Animal Husbandry was implemented into the feedlot as a daily mist application. HumiSoil® manufactured from feedlot manure was then applied 2t/ha each year.

The Outcome:

Increase carrying capacity from 700 head to 1400 head within a year. 7 Years later, the Sturrocks have over 5000 head with the ability to scale to 10,000 without impacting the land.

HUMISOIL VS COMPOST

[TO VIEW LAB ANALYSIS OF
HUMISOIL VS COMPOST
CLICK HERE](#)



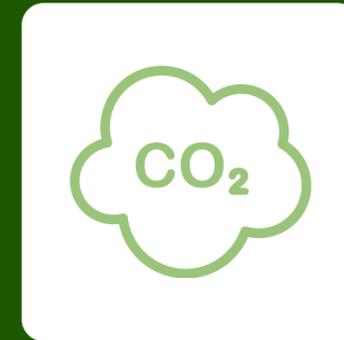
IMPROVES SOIL HEALTH

HumiSoil® typically contains high levels of a wide range of biological activity. These include specific actinomycetes, bacteria and other organisms which are known to benefit and improve soil health.



KICK STARTS HUMUS FORMATION

High humification capacity, in-soil moisture addition through hydrosynthesis, nutrient additions, and carbon sequestration.



SOIL ORGANIC MATTER

The Groundswell® process converts feedstock into soil organic matter, retaining and multiplying carbon, nutrient etc in the resulting HumiSoil®. Composting = min 50% loss in nutrients, moisture and carbon



LOWER APPLICATION RATES

HumiSoil® is deployed at a rate of 10t / ha pa compared to 10 - 50t / ha pa in compost use. A little goes a long way. The process itself is also incredibly low labour intensive with just 1 days labour and 6 months processing.

TESTIMONIALS

Cape Trib Fruit Farm – Merran Blockey

“We’ve been working with Green Food Australia for the past 3 years, creating our own HumiSoil® on-farm from our own waste. The success of GFA products on our farm became obvious when we were hit with 5m of rain in 3 months and suffered almost no erosion.”

ANP Lemon Myrtle – Brad Moulten

“We’ve been working with GFA for the past year, converting locally sourced chicken manure into HUmiSoil® and applying in conjunction with XLR8®Bio across our blocks with visably improved plant health”.

Babinda Sugar – Scott Johnson

“I couldn’t speak highly enough of Jess and Green Food Australia. The team are so easy to work with and their dedication to creating solutions for farmers is impeccable. Highly recommend.”





CONTACT US

Green Food Australia

22 Warner Road, Cassowary QLD 4873

Ph Jess: 0467 667 000

info@greenfoodaustralia.com.au

Follow Us on [Facebook](#) / [Insta](#)

vrm
BioLogik



Green Food Australia harnesses the biotechnology pioneered by VRM Global. Some of the case studies are the property of VRM Biologik and are not to be shared or distributed.