

HYDRO BOOST

BETTER WATER, BETTER PASTURE, BETTER HEALTH

The proven system to increase pasture,
improve water quality and boost animal
health

IMPROVED WATER QUALITY = INCREASED PASTURE GROWTH

INTRODUCING HYDRO BOOST

Hydro Boost is a New Zealand-based company with a proven system to increase grass growth on both fertilised and unfertilised pasture.

Hydro Boost increases grass growth by using a low frequency radio to energise water as it passes through the unit. The energised water increases nutrient uptake, water viscosity and enhances root system development in plants.

Hydro Boost stimulates the electrochemical activity of molecules, prevents the formation of scale and dissolves the minerals normally contained in water, allowing them to be absorbed more quickly.

In plants, it increases their natural immune system, enhancing the root activity and stimulating the process of photosynthesis, increasing the absorption of CO₂ from the air.

Through regular use of Hydro Boost, pasture quality is improved, and growth is maintained during dry periods, while reducing the amount of irrigation required.

The Hydro Boost device is easily installed on existing water lines, with a range of sizes available to fit pipes from 40-300mm in diameter.

The benefits of Hydro Boost can be applied across three areas: pasture growth, water quality and animal health.

HYDRO BOOST AND PASTURE GROWTH

Hydro Boost is a proven system to increase grass growth on both fertilised and unfertilised pasture.

Rain water is the carrier of electrical energy which, when discharged at ground level, stimulates plant growth. Plant growth from rain water is at a greater rate than irrigated water.

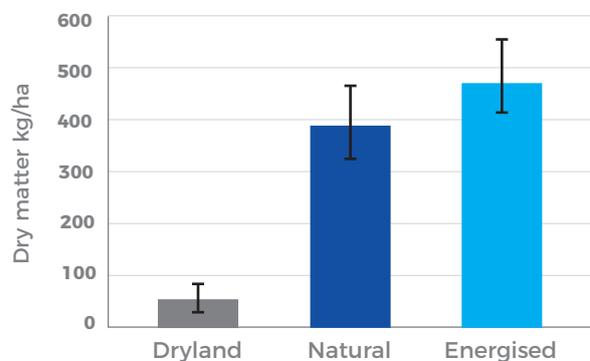
Hydro Boost has developed simple to install hardware which introduces an electrical charge to water as it passes through pivot irrigators, replicating the structure of rain water. This significantly increases paddock yield, the efficacy of fertiliser and builds metabolic drought resilience in plants.

Hydro Boost can be used for several pastoral applications, including on farms and for sports fields. The product has undergone thorough testing and trials, with results showing fast and continued improvement in the quality of the grass. Results can show as quickly as five days after treatment begins.

Performance on pasture

Hydro Boost has undertaken significant pasture trials in recent years. In one trial, energised water increased dry matter from 397 to 474kg/ha, as compared to untreated natural water.

Independent field trials in Central Otago resulted in the following:



Performance on polo fields



Before

The surface required seven days of watering to improve the quality of grass, which is a priority for the sport of polo.



After

After fitting a Hydro Boost Unit - HB 40, the grass surface was noticeably greener after five days and continued to improve. Stock health also improved.

HYDRO BOOST AND WATER QUALITY

Easily installed on existing water lines, Hydro Boost unclogs old lines and extends the life expectancy of valves, pipes and spray equipment.

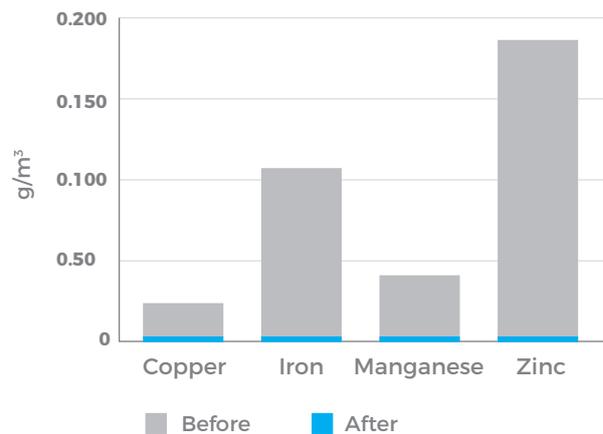
It treats dairy effluent ponds to reduce crusting and allow for free flow of effluent to paddocks. It is advantageous to orchards and vineyards, increasing the size and shelf life of harvested produce.

Treatment of iron and manganese

Hydro Boost is a great treatment for water high in iron and manganese. Installation of a treatment unit improves the quality of the water, taking the red-brown water (high in iron) or black-brown water (high in manganese) to crystal clear, safe for use without the risk of staining.



Recent lab tests show a significant improvement to water quality after Hydro Boost was installed for a period of 5 days:



g/m ³	Copper	Iron	Manganese	Zinc
Before	0.2	0.105	0.042	0.187
After	0.0101	0.021	0.00053	0.0093

Performance on an effluent pond



Before

An unusable effluent pond that had developed a solid crust.



During

The Hydro Boost device was inserted just under the liquid surface on the side of the pond. Within eight days, the crust was breaking up.



After

Four weeks later, the solids were almost gone and the stirrer was able to start.

HYDRO BOOST AND ANIMAL HEALTH

In animals, Hydro Boost increases their natural immune system, enhancing metabolism efficiency and consequently controlling the intestinal fermentation and reducing the production of methane and ammonia.

It can be used to improve stock health, with treated water aiding in the farm animals' ability to gain more weight with less food and with less stock lost to disease.

Providing energised water to feeding troughs for both chickens and weanling pigs has been proven to improve feed conversion rates and reduce mortality rates.

Performance on weanling pigs

A trial on Landrace Yorkshire weanling pigs in Denmark resulted in a 19% increase in weight gain where Hydro Boost was fitted to treat the main water supply of the farm's drinking water and the supply to the wet feed equipment.

Over 54 days, the Hydro Boost-treated group showed a superior average daily gain (ADG) of 97.84 grams over the control group resulting in a 19.47% difference in weight gain.

This superior ADG resulted in a total final weight at the end of the treatment of 6.18kg/pig (19.22% heavier than the untreated control group).

TESTIMONIALS

"In 2004 we purchased a lifestyle block and the water was high in iron and manganese. The water ran bright orange and we did not have good grass and stock were under performing. In 2015 we installed a Hydro Boost unit for irrigation and now we have good quality pasture and the stock weight gain is beyond target."

- Maree Jenkins & Brain Simonsen - Canterbury, New Zealand

"Prior to fitting a Hydro Boost to my water system in November 2015, it took seven days of watering to green up the polo fields. Immediately after installation I noticed the improvement and it continued to improve over the month. The stock health, which is always difficult in Canterbury over the winter, improved within six weeks."

- Mark Donald - Blue Springs Polo School, Canterbury, New Zealand