



CASE STUDY

Enhancing soil health and plant growth with PyroAg at Cangoura Farm

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Wood Vinegar

Hamish, 42, a seasoned farmer, manages Cangoura, an 850-hectare beef cattle farm nestled in the landscapes of Bathurst, NSW. With a passion for sustainable agriculture, Hamish oversees a thriving operation consisting of 300 breeding cows and an annual turnover of 80-100 finished steers.

Named after the indigenous Wiradjuri word for kangaroo, Cangoura, embodies a commitment to harmonising land stewardship with economic viability.

At the Mudgee Field Days, Hamish was curious with discussions surrounding 'wood vinegar' in regenerative agriculture publications. Eager to explore new avenues for improving soil health and plant vitality, Hamish was drawn to PyroAg.

For years, Cangoura relied on traditional synthetic fertilisers for fodder crop production.

In recent years, the decision for Cangoura was made to move away from synthetic fertilisers to foliar based fertiliser applications, also incorporating humic and fulvic acids.

Over several years, Hamish noticed soil health and plant nutrition improve, as well as plant pest resistance develop. Upon researching wood vinegar and discovering PyroAg, Hamish was keen to explore the opportunities in increasing the

efficiency and efficacy of the foliar and herbicide applications.

Hamish ensures a consistent application rate of 500ml per 100L per hectare, maximising the benefits of PyroAg at Cangoura. The use of PyroAg with other treatments makes the cost of applying negligible. No added diesel or labour makes the total cost of PyroAg very low.

With a year of PyroAg usage under its belt, Cangoura has embarked on a series of paddock trials to gauge its efficacy firsthand. Through thorough observation and data collection, Hamish and his team seek to quantify the impact of PyroAg on soil quality, plant growth, and overall farm productivity.

While awaiting the results of formal soil testing, Hamish has already begun to witness promising signs of improvement in Cangoura's agricultural ecosystem.

Visually, pastures exhibit an enhanced responsiveness to liquid fertilisers when augmented with PyroAg, hinting at underlying enhancements in soil health and nutrient uptake. Given the time sensitive nature of farming, any process which increases plant response to the given application, is of huge benefit.

The incorporation of products like PyroAg played a pivotal role in Cangoura's broader soil health

regimen. **By unlocking greater efficiency and nutrient availability within the soil, PyroAg empowered Hamish to optimise resource use and drive sustainable agricultural outcomes.**

PyroAg finds application throughout the agricultural program at Cangoura, from the early stages of termination and fallow knockdown to the crucial phases of autumn and spring foliar fertilisation. This strategic integration ensures a consistent supply of essential nutrients to support healthy plant growth and development.

Using PyroAg, Cangoura employs a carefully curated suite of chemical and fertiliser inputs tailored to their specific needs. Cangoura uses a suite of knockdown and selective herbicides, various foliar fertilisers which incorporate macro and micro minerals that form part of the farm management toolkit. Hamish incorporates PyroAg with all on-farm soil and plant applications.

Hamish praises PyroAg for its exceptional value proposition within the agricultural marketplace. As a low-cost, high-impact solution, PyroAg stands out for its compatibility with existing farm practices and its ability to deliver tangible results without breaking the bank.