



Wood Vinegar

CASE STUDY

**Soil health and plant nutrition
motivating factor for Teak Lane
Macadamia Farm trialling PyroAg**

visit [PyroAg.com](https://pyroag.com)

call 1800 PyroAg (1800 797 624)

email info@pyroag.com



Wood Vinegar

With an 18% yield increase, 44c per tree and no extra tractor time required - PyroAg is cost and time efficient.

Murray and Julie Sheer agreed to host a trial of PyroAg at Teak Lane Farm, their Macadamia Farm managed by Kim Wilson of Eureka Macadamia Management.

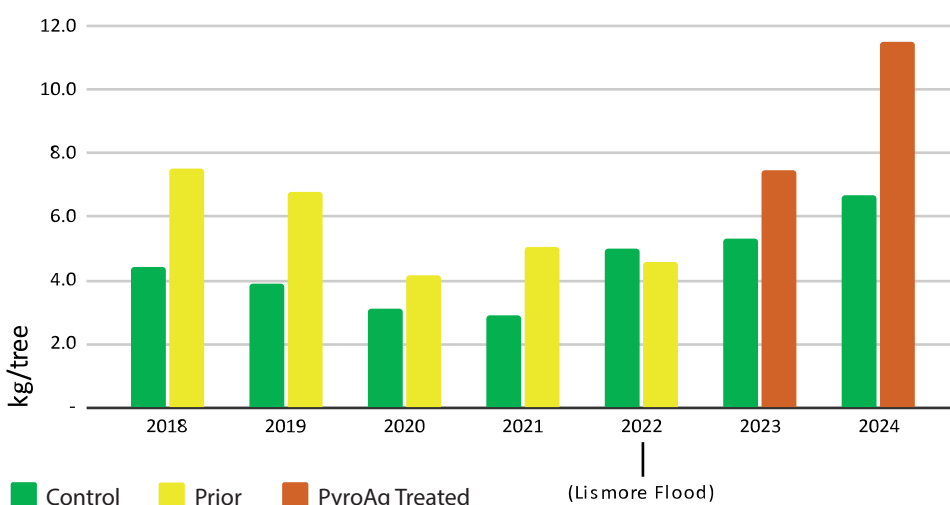
Murray and Julie are constantly searching to improve the performance of their twenty three hectare orchard. Soil health and plant nutrition have long been a focus and were a motivating factor for trialling PyroAg.

PyroAg is made in our Australian developed, patent pending technology as a co-product of charcoal production. Containing low molecular weight organic acids and smoke chemicals, such as Karrikins, PyroAg has been shown to promote plant growth promoting bacteria (PGPB).



In a scientific paper, authored by Professor Megh Mallavarapu of the University of Newcastle and the Soil CRC, Professor Mallavarapu stated: "Such a high abundance of the beneficial PGPB at lower PA concentrations could positively relate to better soil quality, indicating enhanced plant growth and yield"

Yield/Tree - Teak Lane Farm



"In contrast, higher concentrations of PA promoted the abundance of spore-forming bacterial genera such as Bacillus, which is responsible for defensive action such as reducing the pathogenic bacteria and pest control."

"Overall, this study demonstrates PA's potential for improving soil biological health by enhancing the beneficial plant growth-promoting bacteria."

Since 2023 Murray and Julie have applied PyroAg to Block Two of their three blocks. PyroAg was simply added to the four sprays that are standard in their management program.

This ease of use was another key factor in Murray and Julie's motivation for trialling PyroAg.

With no extra tractor time required, using PyroAg was extremely time and cost efficient.

Using only 90mL of PyroAg per tree for the season was enough to see an 18% yield increase compared to the control. That's from an expected 9.8kg per tree to 11.5kg. With PyroAg sold at \$5/L the cost to Murray and Julie was only \$0.44c per tree.