



Naturally
Better
Farming



The future of sustainable
farming practices is happening
today with PyroAg

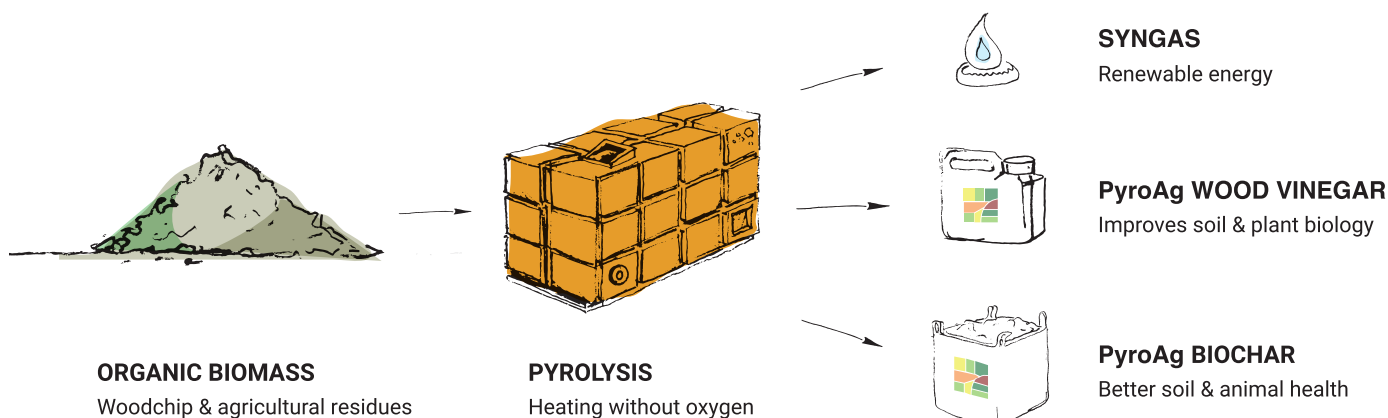
What is PyroAg Wood Vinegar and how is it made?

PyroAg Wood Vinegar, is a natural biostimulant helping improve soil health and reducing chemical input for a more sustainable farming future.

PyroAg Wood Vinegar, also known as Pyroligneous Acid, is a natural amber coloured liquid that smells like smoke. It is used to improve soil biology, promote the growth of plants and reduce chemical dependency. It helps to build the plants natural resistance to environmental stressors and improves uptake of other substances you are applying to your crops or trees.

PyroAg Wood Vinegar is made in a controlled biochar manufacturing process, by heating organic biomass in an oxygen reduced environment, this leads to the materials decomposition. The smoke gases are cooled and condensed which become liquids; it then undergoes further proprietary refining processes we developed to ensure the highest quality product.

What remains is PyroAg Wood Vinegar, a high quality, dense liquid substance made up of natural Organic Acids.



“ Almond grower

Embracing sound & considered sustainable practices such as PyroAg Wood Vinegar gives me the leading edge in sustaining an orchard that is thriving.

— Jim Belehris
Belehris Estate

“ Cereal & legume grower

I have noticed healthier crops as well as a better kill on the weeds which is another bonus.

— Chris Routley
Surrey Brae

What are the benefits of using PyroAg Wood Vinegar?



Stimulates the plant growing microbes & bacteria in the soil creating a more robust ecosystem unlocking more nutrition for the plant to thrive while building the plants natural resilience to pests & disease.



Contains smoke chemicals (karrikins) that improve seed germination much the same as a bushfire sparks dormant seeds.

Improves soil pH levels & enhances composting activity & fertiliser uptake.



Can be used in organic and conventional farming practices.

7 years of use has consistently shown reduced chemical input requirements while improving crop yields & produce quality.

With all the benefits, alongside very low cost applications, the use of PyroAg Wood Vinegar can significantly improve your business bottom line.



Backed by science

PyroAg invests in science to better understand the benefits PyroAg Wood Vinegar can bring to growers and to optimise the applications. We are currently carrying out research with The University of Newcastle to better understand the methods of improved crop yields, and starting a trial with Sydney University to measure possible methane reduction in pasture grazing.

Our previous research carried out by The University of Newcastle published a study [Effect of Pyroligneous Acid on the Microbial Community Composition and Plant Growth-Promoting Bacteria \(PGPB\) in Soils](#) to uncover the benefits associated with wood vinegar.

This study demonstrated PyroAg Wood Vinegar's potential in improving the soil biological health as quoted by Professor Megh Mallavarapu, The University of Newcastle.

"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"

"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."

The results of the study backed our farmers' in field observations and results, and clearly showed that PyroAg Wood Vinegar helps to improve soil quality, plant growth and yield.

There are more than 100 articles, trials, studies and research



papers from around the world highlighting the incredible benefits mentioned above to using a high-quality wood vinegar. **If you wish to read more supporting research please go to PyroAg.com or go one step further and do your own trial and see first hand the boost that PyroAg Wood Vinegar can add to your existing regime.**



What, how and when can PyroAg be used?

Seek suitable recommended application rates on our website PyroAg.com



Wood Vinegar has been used for hundreds of years in Asia. PyroAg has carried out University research to ensure our product is very safe to use on your farm and to the surrounding environment.

PyroAg is a versatile product suitable for application on all types of crops, composting and soil types. It can be applied into irrigation, fertigation systems, seed dressing or used as a foliar spray.

Applied alone as a seed treatment to stimulate germination, it has shown increased strike rate and reduced time of germination for a variety of species.

It has very low application costs and can simply be added every time you spray other products - regular frequency at low rates gain the best long-term results.

“ Wheat, Barley & Sheep farmer - 2500 acres

I now use PyroAg Wood Vinegar on all my crops, I see PyroAg having several distinct functions; it's applied as seed treatment with microbes, it's included with the liquid injection at seeding, is complementary to all herbicides as a microbe buffer & used at times of high pest risk to give me a more resilient plant.

Andrew Smith

Brinkley

“ Greenhouse & Grape grower

Four years ago, we introduced both our vines and vegetables to PyroAg Wood Vinegar as well as using an integrated pest management system using biological control, to improve the soil. The results were clear.

Amrit Singh

Renmark

Team PyroAg

Here at PyroAg, we care about what goes into Australian soils. We have invested and continue to invest in years of scientific testing, research and development. This way we can understand what works the best and develop refining processes to ensure our product meets high quality specifications year on year outperforming all other wood vinegars.

We, as a team are, committed to creating consistently high quality products that offer positive results for all farming businesses so they are more sustainable and more profitable.

PyroAg is available throughout the country and we have a network of very knowledgeable and helpful distributors Australia wide.

Want to know more? Have more questions?

visit PyroAg.com
call 1800 PyroAg (1800 797 624) or
email info@pyroag.com

Find your local stockist
PyroAg.com

