



PERENNIAL PASTURE SYSTEMS

MAKING PASTURE GO THE DISTANCE

PPS NEWS

PPS 15th Annual Conference; Ararat Town Hall; Ararat, Tuesday September 17th, 2024

The 15th Annual PPS conference is not far away and bookings are now open.

Details and presenter list on the newsletter attachment.

Annual Dinner; A change has been made to the Annual Dinner format, this year the dinner will follow the conference tour with a return to the Ararat Town. Pre dinner drinks will be available for purchase at the bar and there will be time to further inspect sponsor displays. The dinner will be at 6pm with Jody & Co providing a two choice main & desert options, cost is \$60 per person. The dinner is to be pre paid and dinner drinks will be available for purchase at the Town Hall bar.

Annual Conference Offer; We all know people who would be interested in the PPS conference, this year PPS are offering a prize draw for members who bring a guest who signs up to PPS. The new member cost is \$126 (\$66 for membership and \$66 for the conference), both including GST. We look forward to seeing a few new faces. The prize draw for a voucher from Ag, Horse & Vet will be conducted at the "Not, Just a Farmer" tour on October 13th.

PPS Winter Farm Tour; Thirty five members attended the tour at Dadswells Bridge in July, a report is on page eight of the newsletter. Two interesting farm systems were inspected and plenty of ideas were exchanged.

PPS Annual Study Tour; nineteen members participated in the Annual Study Tour, this year in Tasmania. Some pictures are included on page three. A summary will appear in the December newsletter and a tour report will be sent to members and posted on the PPS website in due course.

PPS Stats; PPS has made a couple of interesting achievements in the last month. Over two hundred farm businesses have been part of PPS as members; the area managed by these current and past members is now over 250,000 Ha. Also the PPS "closed" Facebook page now has over 300 members with some recent additions making the number 308.

Federation University Presentations; over fifty people attended a research presentation on June 26th in Ararat. Updates on agriculture related PhD projects were introduced by PhD candidates and other researchers. PPS were involved in event planning and twenty seven members were in the audience. A new data collection project has commenced with PPS and Federation University students aiming to transfer soil test data from old paper copies to tabulated digital data.

PPS Webinars; PPS has two recorded webinars available, a Cibolabs satellite pasture imaging information session from the Smart Farms 4 program and a "Dealing with a tough winter" with Jess Revell. Jess from Rumenate Livestock Services is using information from the PPS feed quality projects; which is part of the MLA PDS program. Find them on the PPS website.

PPS Annual Pasture Survey; see page two for details; prize of road building rocks on offer from Western Quarries

New Projects; two new projects are commencing in spring. (1) An MLA/Ag Vic EPDS, gathering quantitative data on the use of Arrowleaf Clover as a single variety "Arrowleaf Clover; is it a good as it looks? (2) A soil microbiology project with Helen Hayden as part of a Melbourne University project "Nematode DNA metabarcoding as soil health bioindicators" PPS involvement is funded through a WCMA Victorian Landcare grant. More details in December newsletter.



PPS Project Manager Position

PPS are looking for a new Project Manager to commence the role in early 2025, details of the position will be released soon. Current Girls & Grass facilitator, Debbie is standing down and Project Manager, Rob is looking at taking a lesser role in PPS activities. Rob & Debbie will provide transition support for the new Project Manager. The position is a work from home (or farm) contract with flexible hours and conditions.

Contact President, Craig (040448 86369) or Past Presidents Wayne (0417 056871) or Duncan (0410 996126) for more info.

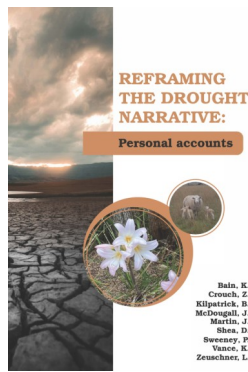
"Not" Just A Farmer; Spring Tour, Sunday 13th October

PPS members Leila and Sean have had a huge impact with the "Just A Farmer" film; seventy members attended a PPS viewing in March and many others have seen it in other theatres or streaming. Leila has had international recognition winning the Best Oceania Actress award at the Septimius Awards in Amsterdam!

The filming was done on the family farm "Rosedale Ridge" at Maroona and the PPS Spring Tour will inspect the farming operation while taking in some of the picturesque filming locations. The day will start with lunch at the Maroona School with a presentation from Carly Parsons from the One Red Door mental health charity, talking about themes from the film. Members and guests are invited and RSVP's or Trybooking registration must be received by Thursday October 10th. Details are on the attached flier.

The event is supported by the Farm Business Resilience Program And Agriculture Victoria.





Girls & Grass are launching the booklet, pictured above, that was produced as part of the social research project that explored the impact of drought on younger members of the farming family. This project is a collaboration between PPS and Federation University. The booklet is entitled *Reframing the Drought Narrative*. Seven ladies participated in the project all giving very open and frank discussion over the impacts of the millennium drought. Hopefully the recommendations made from this study will empower PPS to understand and support members into the future. The launch evening will be a social dinner, celebration of the completion of the project and an opportunity for PPS ladies to enjoy an evening out with friends and peers. It will be held on Tuesday 15th October. More information will be emailed closer to the date. This project was funded through the Federal Governments initiative—Future Drought Fund—and the assistance of Southern Farming Systems.



Girls & Grass is exploring the interest from PPS members into hosting an accredited First Aid Course. Those members who completed this course in 2021.22 will soon be due for a refresher. We have the opportunity to engage trainer Casey Kosch if there is a positive response to running the course. The dates that Casey is available for us to undertake the whole day course (9am-3pm) are either Wednesday 13th November or Wednesday 27th November, 2024. Please respond to Debbie, 0418205353 if you are interested. The cost is not confirmed as yet as PPS will investigate funding to assist.

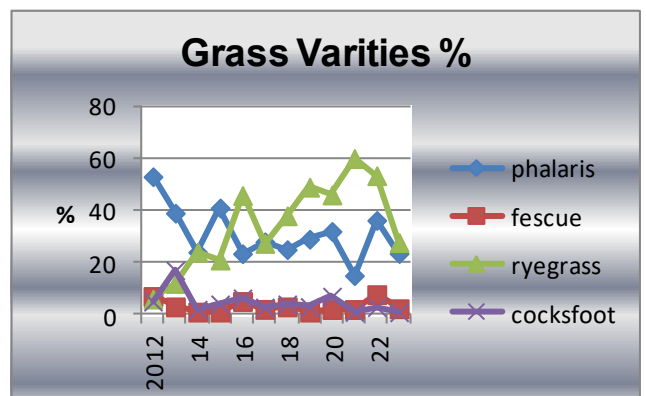
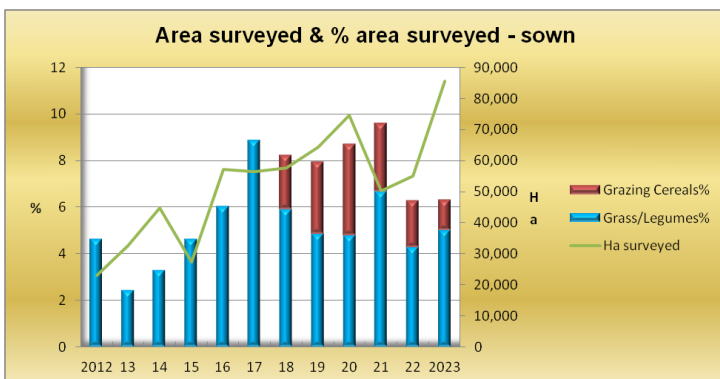
PPS Annual Pasture Survey

Since 2012 PPS has been collecting information on pasture establishment from members; this information is combined to establish pasture establishment trends in the region.

The information assists PPS in its reporting to funders and provides the basis for research funding applications.

Examples of the collated data is shown in the graph below.

Survey forms can be completed on Survey Monkey which will be forwarded to members or can be accessed at link & QR code below..



PPS will conduct a prize draw from the completed survey forms and the winner will receive a trailer and dog load of crushed rock, suitable for road building purposes, free delivery for up to 100 km from the Pyrenees Hwy quarry; compliments of conference sponsor Western Quarries.

For more information on Western Quarries products contact 5352 2660 or info@westernquarries.com



The winner will be announced at the at the PPS End of Year Event on November 29th

<https://www.surveymonkey.com/r/GGHW637>



Rabobank offers second round of online farm financial skills workshops

Primary producers across the country have the chance to develop their knowledge, free of charge, at a series of Rabo Client Council online workshops, designed to help provide financial skills key to managing an agricultural enterprise.

The practical **Financial Skills Workshops** – providing primary producers with an opportunity to both upskill and network – will be held online in late August and throughout September.

The initiative has been spearheaded and funded by food and agribusiness banking specialist Rabobank's Rabo Client Council, a group of the bank's farming clients who volunteer their time implementing programs that contribute to the sustainability of rural and regional communities.

Offered at no cost to participants, the interactive workshops provide practical, hands-on advice for understanding financial statements and banking requirements and explore topics, such as taxation versus management accounting, essential business management ratios and understanding key components of a business's financial profile.

Rabobank head of community and client engagement Glenn Wealands said this is the second round of online workshops to be offered this year. "The workshops the bank delivered in May proved so popular, with places filling quickly, we knew there was a need to provide an additional opportunity," he said.

Mr Wealands said the goal of the workshops – tailored specifically for farm owners and managers – is to ensure participants leave feeling confident and motivated about their financial skills and knowledge.

"We recognise that it can be difficult for farmers to take time away from their businesses, so the bank is providing these concise online learning options as an alternative to the in-person workshops, which will also continue to be offered nationwide," he said.

The online workshops – which will be limited to 25 participants each and are not restricted to the bank's clients – will be delivered by director of Hudson Facilitation, Tony Hudson. Mr Hudson will present the workshops in two blocks, looking at measuring financial performance and gross margin analysis.

During the measuring financial performance workshops, participants will look at financial reports – one of the most useful and underutilised reports for many farming businesses, Mr Wealands said. He said the workshops sessions will help participants gain an understanding of how to read, interpret and use these reports. "As banks are a key stakeholder in many farming businesses, this particular workshop will explore how banks assess farmers and farming businesses in providing finance, along with sharing a number of tips to help make this important relationship as beneficial as possible," he said.

Mr Wealands said the second block of the workshops will deal with gross margin analysis. "Gross margin analysis is a critical step in farm planning and decision making. In this workshop, we take an enterprise-focused approach. We will consider both cash flow implications of a variety of enterprise choices and will also focus on preparing annual cash flow budgets," he said.

Mr Wealands said primary producers who had attended previous Rabobank Financial Skills Workshops have told the bank the information provided is "real and valuable".

"Since launching in 2018, the Rabo Client Councils have extended this valuable learning opportunity to over 4,800 farmers across Australia and New Zealand," he said.

Online workshop dates:

Gross Margin Analysis and Cash Flow Budgeting workshops

Thursday 5th and Friday 6th September 2024 East Coast: 10.45am to 1.30pm AEST

Tuesday 17th and Wednesday 18th September 2024 - East Coast: 10.00am to 12.45pm AEST

Thursday 19th and Friday 20th September 2024 - East Coast: 8.45am to 11.30am AEST



To register to participate, copy and paste the following link into your browser

<https://rabobankaunz.eventsair.com/financial-skills-workshops/registration/Site/Register>

To find out more about Rabobank, contact your local Rabobank branch on 1300 303 033 or subscribe to **RaboResearch Food & Agribusiness Australia & New Zealand** on your podcast app.

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Federation University have an agricultural project position available at their Ararat Campus; details below.

Project: DFAT-funded project - Blockchain technology for grain traceability in Australia and India.

We are looking to appoint a Research Project Officer (2-3 days a week) to coordinate the project and help us run the project activities over the next 12 months in Western Victoria through the Ararat Jobs and Technology Precinct. The person should be able to liaise with farmers in Australia/India, coordinate meetings/workshops, and contribute to reporting, among other things.

Ideally, the candidate will have higher education in business, agricultural science or agribusiness. PhD is preferred.

Remuneration depends upon qualification and experience.



Study Tour Tasmania

A report will be included in the December newsletter and the full tour report will be sent to members & included on the PPS website when completed,



What about Fog Grass? Part 2

Out of interest, PPS included fog grass (*Holcus lanatus*) in the feed quality testing as part of the “Productive grazing with feed quality management” to see if it can be of any use if your pastures happen to have it.

The results suggested that fog grass could have maintained weight in a 50 kg dry sheep until mid November; sheep dislike the velvety, hairy leaves but heavy grazing while it is still nutritious and improved soil fertility will help eliminate fog grass. The project is part of the MLA PDS Program.

West Australian PPS newsletter reader, Ken Sharpe who is an agronomist with Omya Australia P/L has provided some information on how Fog Grass survives in hostile soils.

Fog Grass (& Lotus minor) are successful plants on wetter acid soil types in WA. Both plants have the ability to produce in aluminum toxic soils due to the ability to synthesise tannins. As the top soil profile dries out the roots seek moisture deeper in the soil profile where the aluminum is more available due to less buffering by organic matter and lime.

4% tannins will reduce ruminant palatability until at 7% tannins stock will not graze these plants. In their most simple form tannins are -OH which is palatable and alkaline. It is the Al+++ Fe++ & Mn++ bonded to the tannins that limits microflora function in the rumen. Our investigation found 2ppm Al killed bacteria forms.

Tannins are not the limitation but the cations that they chelate. In the rumen the microflora are impacted by the cation not the tannin”.

Subsoil aluminum shows up as patches across a paddock. The canola stubble turns red/purple at the very end of the growing season as the roots seek deepest moisture. This is where the aluminum exists in solution. the tannins are expressed as red colouration in stubbles”

Ken provided the aluminum tolerance table below:

Aluminium Tolerance. (expect variety variations)

Highly Sensitive	Barley, Balansa, Lucerne, medic, strawberry clover, tall wheat grass, buffel, sunflower, rice
Sensitive	Wheat, Canola, red clover
Moderately Tolerant	sub-Clover, annual ryegrass, vetch, maize, sorghum, capeweed white clover, rose clover
Highly Tolerant	Oats, triticale, lupins, serradella, cereal rye, lotus, couch, bent grass, paspalum, kikuyu, Tobacco, Tea,

Information from Agriculture Victoria gives further advice on aluminum tolerance for grasses and clovers. Species differ widely in their tolerance of excess aluminum. Lucerne and phalaris are highly sensitive. Subterranean clover, white clover and perennial ryegrass are moderately tolerant, while cocksfoot is tolerant (Cregan 1980).



Barley pictures from W.A.

The red/purple sections of the barley plant have extremely high aluminum + iron compared to the green sections.



THINKING OF TOMORROW



PPS is a partner with the Ky Farmers Best Wool Best Lamb Group in the “Less Mites, More Feed” MLA PDS Project which is being managed by Mat Mahoney from Agridome, Mansfield. Entomologist (& PPS member), James Maino, formerly from Casear Australia was a consultant to the project and has provided an update.

MLA Demo Sites Shine Light on Pasture Pest Management

A collaborative MLA-funded project investigating pasture pest management is making strides with data now collected at several demonstration sites across Victoria. These sites, located in key livestock production regions, provide valuable real-world settings to observe pest populations and the impact of control methods, such as the use of TimeRite.

Researchers from Cesar Australia (with Perennial Pasture Systems and AgriDome) are tracking pest and beneficial populations across these sites, focusing on species like the redlegged earth mites (<https://cesaraustralia.com/pestnotes/mites/redlegged-earth-mite>). These sites highlight the importance of monitoring when making decisions to control pests and the secondary impacts chemical control can have on beneficial insects. Beneficial insects included predatory mites, like the pasture snout mite that predate on pest mites.



Figure 1. Pasture snout mites predate on redlegged earth mite and other pests but are sensitive to pesticide use. Credit: Cesar Australia

Observations are showing that RLEM populations have generally been low and experimental TimeRite sprays have had little impact on pest control outcomes due to the low numbers.

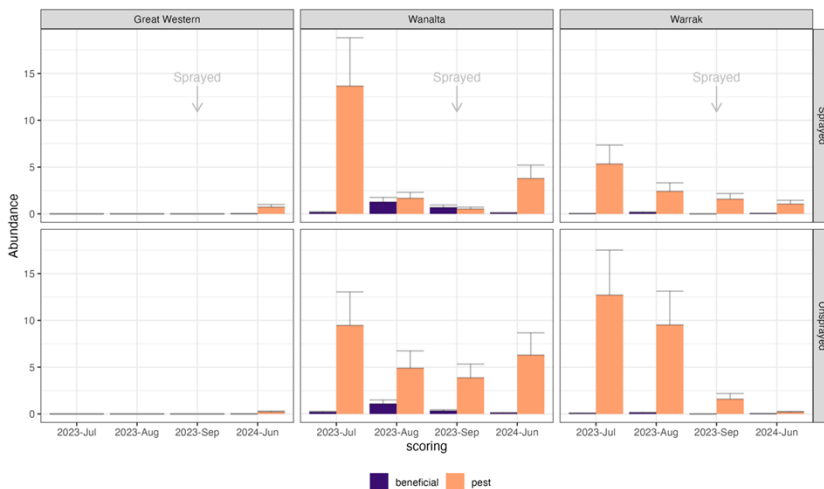


Figure 2. Total pest and beneficial abundances (per 100 cm²) at each of the demonstration sites through time. Note that at Great Western measurements were only taken at June 2024 due delayed site setup. Credit: Cesar Australia.

The PPS demonstrations demonstration sites are on “Allanvale South” at Great Western & “Tirrana” at Mt Cole Creek.

The project also emphasises knowledge sharing and producer engagement. Online workshops, such as the well-received pasture pest identification workshop held in 2023 and the autumn field day in Wanalta 2024, will continue to assist producers with the information they need to make informed decisions about pest management on their properties.

Producers have encouraged to use the available pest management tools including:

Beneficial Toxicity Table: agpest.com.au/beneficials-chemical-toxicity-table

Seasonal Pest Risk tool: agpest.com.au/seasonal-pest-risk

RLEM Hatch Timing Tool: <https://cesaraustralia.com/resources/redlegged-earth-mite-hatch-timing-tool/>

TimeRite: wool.com/land/timerite/

New PPS Project

Arrowleaf Clover; is it a good as it looks?



*Arrowleaf 2011 – 23 -
Tirranna; Mt Cole Creek,*

Cresswell; Beazleys Bridge, Millbanks; Elmhurst,

Jallukar Park; Rhydney

PPS has been successful in an application to the Agriculture Victoria/MLA EPDS program for a three year project to quantify the value of using Arrowleaf Clover as a single variety in pasture systems in the Upper Wimmera and Upper Hopkins regions of Victoria. The Enhanced Producer Demonstration Site program is a partnership between Ag Vic and MLA which provides funding for the project with an Ag Vic person providing assistance.

The use of Arrowleaf Clover (Arrowleaf) has been variable but in recent years, it has gained a niche usage as a single variety to boost nitrogen levels in between cropping years. This use has led PPS members to use it more widely as a high quality pasture for maximizing weight gain in lambs prior to sale. This use is contrary to current agronomic advice, as shown in the two examples from the current NSW Arrowleaf Clover factsheet.

“Annual legume with predominantly spring and early summer growth. Best utilised in a grazing sward with other annual legumes and/or perennial grasses”.

“Should not be sown as pure sward, as autumn and winter growth is usually poor in most winter-rainfall districts”.

While PPS members are using Arrowleaf as a single use variety and have made observations that suggest that it can be used in this way, there is no quantifiable data to back up these judgments.

PPS is proposing a project to collect data from single variety Arrowleaf pastures to allow producers to make qualified decisions about its use.

The project would also show the possibilities of using the hard seediness of the variety to further enhance pasture systems. Observations have shown successful regeneration of Arrowleaf from seed for several years and PPS member farms have also been able to add Arrowleaf to existing pastures by surface spreading of seed. The project would quantify these observations through data collection and case studies.

Aim: To demonstrate the use of Arrowleaf Clover as a single or predominate variety in soils suited to its use.

Objectives:

Measure dry matter production to ascertain the potential pasture mass of Arrowleaf

Collect pasture quality data to assess its value as a pasture feed

Assess potential lamb growth on Arrowleaf pastures and do comparison with other pastures

Measure and compare nitrogen levels between Arrowleaf and other legume varieties

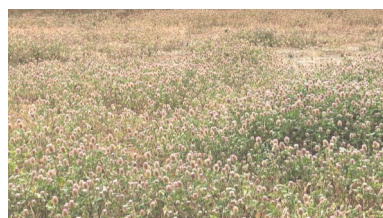
Demonstrate the method of Arrowleaf establishment through low cost practices

Explore the use of Arrowleaf in a range of soil types

Quantify reduced weedicide use in the preparation for crops or new pasture which follow an Arrowleaf pasture

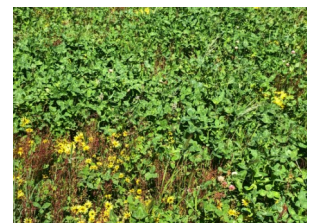
Explore the proposition that Arrowleaf may assist in CO² emission from pastures (J Court, Ag Vic; pers comm.)

Assessments on two pure Arrowleaf pastures sown in 2024 will start in early spring and two paddocks will be selected for low cost methods of adding Arrowleaf to existing pastures.



*Mullingar; Ararat
Left; Arrowleaf broadcast
in to light scarified pasture
& rolled.*

Right; broadcast Arrowleaf



This quarterly newsletter profile is one of our younger members, Georgina Greene. Georgina gives us a glimpse of the opportunities available to young people in agriculture. Georgina has a bright future ahead; PPS wish her all the best in her endeavours

I grew up in the Pyrenees Ranges of south-western Victoria on our family farm, Millbanks. As a kid, I always loved being at home, building huts in the Cyprus trees in the driveway with my three siblings, riding horses, helping Mum and Dad with stock work, and listening to my parent's stories about Ag college and working on stations and in Melbourne.

I attended the local Elmhurst Primary School and later Marian College in Ararat; I never had a set-in-stone idea of what I wanted to be or who I wanted to be and to be honest, I still don't. Throughout high school, the people I was surrounded with had interests in healthcare, education, business, etc., which, from Year 8 to Year 11, led me down the path of human nutrition.

I thought this was my dream until I decided to take on two weeks of work experience with Dave Thorogood at Limestone Station near Capella, Queensland. Dave was my father Ben's head stockman whilst working on Opium Creek Station in the NT and is one of the most influential people in my life. These two weeks, driving tractors, mustering on horses and driving around in the lick truck with a milk crate for a seat whilst feeding cattle were only the beginning of flicking the switch.

During the dreaded year 2020, whilst being stuck at home in lockdown, trying to do Year 12 from home and maintain friendships without seeing my friends was hard. But this time also allowed me to become more involved with the farm, which, for a while, I had felt out of touch with. During this time at home, I started thinking nutrition wasn't the path I wanted to take, and it wasn't until the day of applying for university that I said to Mum, "I don't think I want to do nutrition anymore; I think I want to do ag". After some time and quick research, I applied to multiple universities, a couple in Victoria, one in Queensland and one in NSW, all for agriculture degrees.

Shortly after, I decided I wanted to take two gap years for some time off school because, let's be honest, I was over it, and I wanted to move up north to work on a cattle station. I applied to six different companies and later found out I hadn't received a job offer from any of them. After finishing school, I began working at home, helping with stock work, and having my first go as a roustabout during shearing.

Whilst still trying to decide what to do during these gap years, my university offers came back, and I took an offer with Charles Sturt University to study a Bachelor of Agricultural Science. Shortly after, I heard about an opening with Hacon Pastoral Company in Western Queensland from Wayne Burton. After a phone call with Rick Hacon on a Tuesday, receiving a job offer on Friday, getting organised, and leaving by the following Tuesday, I was on my way to Queensland and leaving home for the very first time.

I spent two years with the Hacon family at their station, "Kallala", 170 km southwest of Mount Isa. During these two years, I met some of the most amazing people, many of whom I am still friends with today; these relationships and this job gave me a confidence I never knew existed within myself and gave me the grit I required to pursue this dream. We worked hard but were always greatly appreciated for our work, and we had many opportunities to see the sights of Western QLD. I learnt many valuable skills during my time at Kallala, many of them practical, such as riding motorbikes, understanding cattle, their movements and behaviours, and learning new fencing techniques like the 'Waratah knot', which I'm not sure if I have forgotten or not, but most of all I learnt how to persevere, and I am forever grateful for the time I had at Kallala.

At the end of the 2022 season, I decided to come home and start my degree. I moved all my gear home, then repacked it four months later and moved to Wagga Wagga. This time, moving away was manageable. I have met some of the most amazing people at university from all walks of life. These connections I have made in the last two years will be some of the most valued friendships I have ever had. Living, working, and studying away from home is one of the best decisions I have made in my life and something I will continue to recommend to anyone who asks me.

Not knowing what to do with my life is one of the most significant debates I have with myself. If there is one piece of advice I have taken away from my time working away, it is to "Lead, don't be led" - Rick Hacon, which I was told whilst first attempting to tame the lead of a mob of cattle. However, it is applicable in any situation. Because I have no set plan, I don't know what the rest of my life will look like, and there are many more adventures to come. I hope to continue to take on as many opportunities as possible to help others take on their own opportunities in agriculture.



~ PPS DIARY DATES ~

PPS 15th Annual Conference; Ararat Town Hall; Ararat, Tuesday September 17th, 2024

PPS 15th Annual Dinner; Ararat Town Hall, 5.30 pm drinks, AGM & dinner to follow, Tuesday September 17th, 2024

Spring Farm Tour; "Not" Just A Farmer at Rosedale Ridge, Maroona . Lunch and smoko provided. Sunday, October 13th. Meet for lunch at the Maroona School at 12 noon. RSVP by Thursday, October 10th to assist with catering. event supported by the Farm Business Resilience Program through Agriculture Victoria. Flier included as an attachment.

G&G Dinner and launch of the social research project booklet - *Reframing the Drought Narrative*, Tuesday October 15th, Venue Ararat Hotel Red Room. Flier included as an attachment.

PPS End of Year; Friday November 24th at Ledcourt Station (NW of Stawell): Farm tour & evening BBQ, 5pm start. Event supported by Rabobank and the Farm Business Resilience Program through Agriculture Victoria.

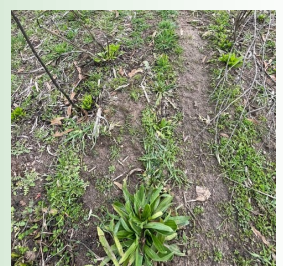


PPS Winter Farm Tour

Thirty five members braved a chilly Sunday arvo on July 14th to attend the winter farm tour at Dadswells Bridge on July 14th. The first site was at the "Fire Recovery in a Multi Species Pasture" at the Maher's Marlu Farms, where PPS are assessing pasture recovery where the Maher's planted a multi species pasture in spring 2023 following a canola crop and capital P application in 2022. The soil is a light sandy loam where a fast growing mix was chosen to prevent any soil damage from wind erosion. The mix consists of Chicory, Plantain, Lucerne, Uplands Cocksfoot, Fescue, Veldt Grass, Arrowleaf clover, Balansa clover and two Sub clover cultivars; sown at 0.5-1 kg/Ha, depending on species. The "Dadswells Bridge" fire started with a lightning strike on February 14th and burnt through 4,350 Ha of bush and farmland. The group assessed three areas of the mixed species pasture; (1) unburnt, (2) severely burnt, where the fire entered the paddock burning fiercely and (3) the main section of burnt pasture where the green chicory and plantain seemed to reduce the intensity of the fire. Graeme and Patrick Maher also discussed wider issues around the fire response and recovery.



Marlu Farms; Left to right (1) PPS group
(2) severely burnt area (3) Cooler burnt area



The second tour was at Jackman Farms where Peter and Leanne Jackman have a Demeter/Bio-Dynamic certified farm near the base of the Grampians. The property has been in the family since 1950, and as second-generation farmers, Leanne and Peter moved to a biodynamic farming system around 20 years ago with the aim of creating a self-sustaining farm through minimal external inputs. They supply British breed second cross bio -dynamic lambs and Angus/Hereford beef into the Rural Organics butcher shops in Melbourne and Sydney. The Jackman's also have "Responsible Wool Standard" certification and are very active in Landcare projects. After a warming smoko, Federation University PhD candidates Kashif and Van spoke about their projects being soil carbon assessments and value adding to agricultural products respectively. If members are interested in adding to the collection of data for their projects, contact the project manager.

Peter and Leanne then talked about their farming operation and marketing strategies before an inspection of two newly established pastures which were growing strongly in what is a tough year.

A final stop was at the Maher families newly purchased "Ledcourt" property where the historic homestead was inspected and while not currently being lived in, it is in good order for a building built prior to 1850. PPS are returning to Ledcourt for the End of Year event which will finish with dinner at the homestead.



Jackman Farms
Left; beans coming through in new mixed species pastures.
Right; Peter on the shovel.



Ledcourt
Homestead