

UNFS UPDATE



Upper North Farming Systems Newsletter

October 2020

What an amazing extension season we've had!

Ruth Sommerville, Executive Officer

2020 has been one where being able to adapt and respond has been key. As the Spring Extension season came over the horizon it became clear we had to change our model of delivery this year...or risk a lot of prep work for no action. I have to say at this point...none of what we achieved would have been possible without the amazing team we have on board with UNFS. Both staff and committee members alike, everyone pulled together to pull off what can only be described as a herculean effort for the extension season.

The Crop Stomp Series replaced our Members Expo and Spring Crop walks. Instead of one big day and 2 smaller half day events we held 6 crop walks over 10 weeks, each capped at 50 attendees and focussed on specific topics. They attracted varied numbers, as to be expected as some of the topics were very specific, whilst others, like the cereal event last week, had something for everyone and so maxed out in attendees. They were all great events with a collection of amazing trials to inspect and great researchers and advisors on hand to listen, learn and discuss ideas with. Huge thank you to Jade for all the work she did to pull the series off.

The Hubs in the Pubs events were held across the region to bring farmers together to network and chat through the goings on on-farm and past the front gate. These events were sponsored by GrainGrowers, AGT and ADM and the PIRSA Drought Funding. These events were designed to be relaxed, social and foster that farmer to farmer learning that we love at UNFS. We had 7 events in 8 weeks and included in that a launch of the new Ag Tech Hub. More info in the newsletter! Thank you to Denni for all her efforts rustling the hubs into gear. Make sure you drop your hub rep a message (contact details at the back) and let them know how you found the event...or make sure they still have one as a post harvest wrap up if it didn't quite happen before the machines came out of the sheds this year!

We also launched a new extension group this spring, the Sheep Producer Tech Adoption Group, funded by Red meat and wool growth program through PIRSA. Their first meeting looked at sheep meat, the technology available and the traits that are worth improving with presentations from meat scientists, researchers and the TFI team. Thanks to Rachel for getting this group off the ground. Some great learning opportunities over the coming year.

Our AGM was held last week, very different to normal...you know...Covid...but it was still a productive meeting. A big thank you to Matt Foulis for all his time on the Strategic Board. Matt has been fabulous at getting new agronomy projects fleshed out and into the paddock. He isn't quiet off the hook though...as he has stayed on with the group on the Operations Committee as a Industry Representative. Welcome to the 2 new Strategic Board Members, David Clarke and Michael Zwar. Welcome also to new Operations Committee Members—Michael Eyres, Ed Scott, Rhiannon Schilling, and Matt Hagger. We look forward to having you as part of the team. Full Strategic Board and Operations Committee list at the back of the newsletter.

With harvest underway in some parts, hay in full swing in many and sheering still going too...there is much happening around the region. Please stay safe this busy season, get enough sleep, drive safe and check in on your mates.

Also in this issue:

- Hubs in the Pubs
- Trial Reports
- Barley Grass Testing
- Lifetime Ewe Management Course
- PIRSA Podcasts to listen to
- ADM Market Update
- Grower Delivery App
- GRDC articles
- Sponsor's Corner
- Diary Dates



Hubs in the Pubs

By Denni Russell, UNFS Engagement Coordinator

With the difficult decision to cancel the annual Members Expo due to Covid 19, the Committee wanted to ensure members could get together before harvest. The concept behind “Hubs in the Pubs” was to hold small gatherings with relevant guest presenters at pubs and hotels across the region. This allowed us to support locals who have also been doing it tough during this strange year. These events were supported by sponsors ADM and AGT who offered guest presenters and through the Grain Growers Partnership Program. Significant funding was also provided by the PIRSA Drought Relief Program.

Ladies on the Land

Emma Scharkie, a qualified local psychologist spoke to the Ladies on the Land (LotL) on the important topic of “Accidental Counselling” at Jamestown and Booleroo



Laura/Gladstone Hub

Rebecca Hamdorf, SARDI PestFacts Editor, presented via Zoom and shared Entomology insights about beneficial insects and the Russian Wheat Aphid (RWA). The UNFS 2019 Time of Sowing video, featuring former president Matt McCullum was also screened to mark all the work Matt contributed to UNFS and to the Laura Ag Bureau.

Booleroo Hub

Wayne Davis from Davis Grain provided a Grain Export update at the Booleroo Hotel.



Morchard/Orroroo/ Pekina & Black Rock Hub

The group gathered at the Commercial Hotel in Orroroo to hear Paul Noble of Elders Port Augusta talk about the current wool market—“To Sell or not to sell”. Andrew Catford from Northern Ag and Tom Moten from Nutrien Ag Solutions also shared insights into rye grass resistance and RWA.



Nelshaby Hub

The Nelshaby Ag Bureau met at Sporties Tavern, Port Pirie where Chris Davey from WeedSmart spoke about weed seed control.



Ladies on the Land Hub REPORT

Sunday Crop Walk Event

By Beth Sleep, Ladies on the Land Hub Rep/ UNFS Project Officer

The first Ladies on the Land hub event took place on Sunday the 12th July, at a local AgXtra trial site out of Jamestown. Here we discussed all things cropping including cereal crop identification, growth staging, the key difference between pesticides and when/why each is used, crop nutrition and finally, how that all relates to final harvest quality and farm income.

We had 22 ladies in attendance, despite the cold, drizzly day, which Steph and I were stoked about! We welcomed many new faces to the hub plus many familiar faces too.

We look forward to our next event, planned for the 9th of September at the Commercial Hotel Jamestown where we will hear from Emma Scharkie (Psychologist) at our 'Accidental Counselling' session. Keep an eye out on our Facebook page and emailing list for more information.



Above: In field growth staging



Above: Steph Lunn introducing us to the trial site on Coopers, looking at awnless wheat varieties.



AgTech Hub Launch

By Denni Russell, UNFS Engagement Coordinator

The AgTech Hub, was officially launched on September 21st at the Booleroo Hotel. It is the newest addition to the UNFS Hub network, following the highly successful Ladies on the Land Hub in 2018. The UNFS Hub network aims to meet a social, engagement and educational need within the Upper North with a focus on farmer to farmer learning and engagement.

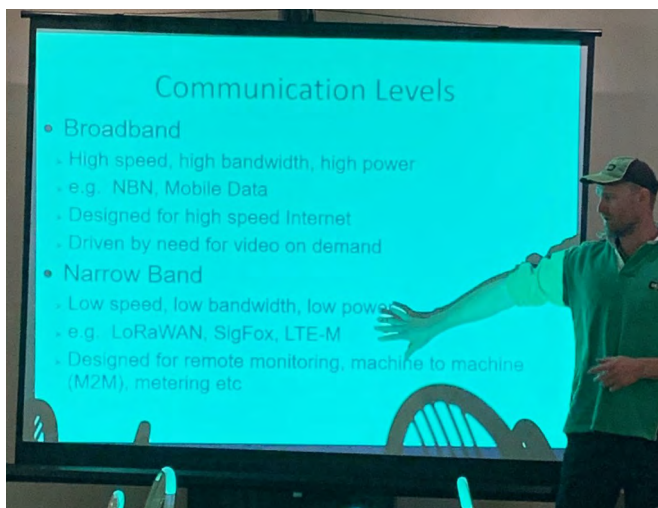
Agricultural technologies, commonly referred to as AgTech, is a broad term that refers to a range of technologies that help farmers make better informed decisions. It has the potential to make primary production more productive, profitable, and sustainable. Some examples of AgTech include the use of robots, temperature and moisture sensors, aerial images, GPS technology and connected technologies such as the Internet of Things (IoT).



UNFS Chairperson, Matthew Nottle said *"We have lots of problems on farm, and there is technology out there that can help solve those problems. Through the AgTech Hub we hope to demonstrate and to test the tech before we encourage others to adopt it in their farm businesses."*

The AgTech Hub's first project is the installation of a LoRaWAN system on Mount Robert, supported by Agbyte. LoRaWAN stands for Long Range Wide Area Network. *"The system is designed to allow low powered devices to communicate with Internet connected applications over long-range wireless connections."* Matthew said, *"the launch of the LoRaWAN system up here will allow local farmers to utilize technology in ways they haven't been able to previously due to connectivity."*

As part of the AgTech Hub launch Leighton Wilksch Director of AgByte, spoke about the LoRaWAN system, its opportunities and limitations. Andrew Sargent also presented on his experience as the 2019 Nuffield Scholarship recipient in addition to what he is working on at SA technology company Opensensing.





UNFS Research Trials Update

By Jade Rose, UNFS Research Coordinator

Micronutrients Trial—Funded by SAGIT

Increasing the knowledge and understanding of micronutrient deficiency in the UN - UNF117

Good visual responses in pulse micronutrient trial – particularly from early Moly treatments (Western Ranges)



Cover Crop– funded by NLP via Ag Ex Alliance

Warm and cool season mixed cover cropping for sustainable farming systems in south eastern Australia.

Assessing cover cropping in a SA system to help improve soil organic carbon, structure and health & decreasing weeds and soil disease levels

Photos of plots being taken once a month –measuring ground cover. Significant soil testing at end of trial.



Barley Grass Management— Funded by GRDC/ University of Adelaide

Two times of sowing to assess the impact on barley grass numbers and the effect on crop growth and yield

The site is in the pasture phase this year

Assessments include barley grass plant density, panicle number in spring and taking some panicle samples to estimate seed set.



Dryland Legume Pasture Systems Project — funded by Rural R&DfP/ MSF

Site 2—All clover and medics looking good – reasonable plant populations. Some varieties (Teder/Seradella showing poor emergence.

Current assessments completed establishment counts, will be undertaking nodulation counts soon.

Site 1—In its cash crop phase, will be left to regenerate 2021 to assess long term rotation suitability.





UNFS Research Trials Update

By Jade Rose, UNFS Research Coordinator

Vetch on Sodic Soils– funded through UNFS Commercial paddock

Species selection for Saline and Sodic Soils in Upper North

Different pre-emergent chemistry applied for problem weed control in vetch. Focus weeds: Mallow and Statice
Assessed for weed control and crop effect.



Barley time of sowing: frost/ heat stress effects– funded by SAGIT

Time of sowing for individual barley cultivars with different maturities. Frost and heat stress events are common spring features of the Upper North, assessing which is of greatest economic impact for different varieties and identifying most resilient systems for barley in the UN.

Establishment counts, rhizobium counts, biomass cuts, NDVI Imagery as primary assessments in crop.

Fodder Crop Trial– Funded by Balco

Cereal alternatives to oats for hay production in the Upper North

Suitable fodder varieties to provide a more flexible and resilient crop option with the possibility of producing either fodder as hay/ green feed or grain production.



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Barley Grass Resistance Testing

By Beth Sleep, UNFS Project Officer

Free Barley Grass Resistance Testing

UNFS are calling any growers who have suspected resistant barley grass. As part of our 'Barley Grass Management' project at Booleroo, we have the opportunity to send samples to the team at Adelaide University to get tested.

What you need to do:

Collect ~100 heads from plants spread out in about 100 m² in addition to a brief comment of any herbicides which did NOT work as well as expected historically. Include your name, location, paddock ID and contact information with the sample in a paper bag.

Submit samples to Beth by the end of October. Results will be reported back via UNFS.

CONGRATULATIONS

A huge congratulations to Denni and Mick who got married this month. A rapid re-plan the week before the wedding saw them able to once again have the wedding they planned surrounded by family and friends...even if some did have to join in via zoom! We hope you had a wonderful day and it is the start of a great life together.

Congratulations to Beth and Damon who announced their engagement this month! The best announcement from of soil scientist I've seen...we look forward to seeing how you include the soil profile into your wedding theme



Something to Watch

Webinar – 2021 Joining Preparation starts now!

Preparation for next year's crop of lambs starts this year. Join us as we hear from Nathan Scott on the technicalities of why you need to be preparing your breeding ewes now for next year's joining.



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Russian Wheat Aphid—Update

By Beth Sleep, UNFS Project Officer—Trials

The 2020 growing season has seen Russian Wheat Aphid (RWA) populations identified right across our growing region in varying population intensities, common to wheat, barley and oat crops. This is likely a reflection of our wet summer conditions allowing the pest to persist on volunteer cereal plants and other green bridges ready to migrate into establishing crops throughout the Autumn period as crops were germinating and establishing. RWA requires a living host plant, unable to 'hibernate' or go 'dormant' over summer. The aphid has been commonly found in areas of stressed plants, high in sugars, living in the leaf sheath of the plant. This makes it physically difficult to get chemical to the aphid, resulting in increased use rates of insecticide, high water rates and the use of wetter/spreader when treating for RWA. Impacted plants show a combination of bleaching and purpling along the leaf margins, resulting from aphid feeding (Fig. 1). Affected tillers will not go on to produce a head containing grains, however unaffected tillers of the same plant will. Current economically viable thresholds to spray the aphid are between 1 affected tiller in every 10 to 1 affected tiller in every 50, depending on grower attitude to risk and environmental conditions the crop is expected to experience moving forward (i.e. moisture stress). Study is still being conducted to identify the best threshold, as we have only really been dealing with RWA for four seasons now.

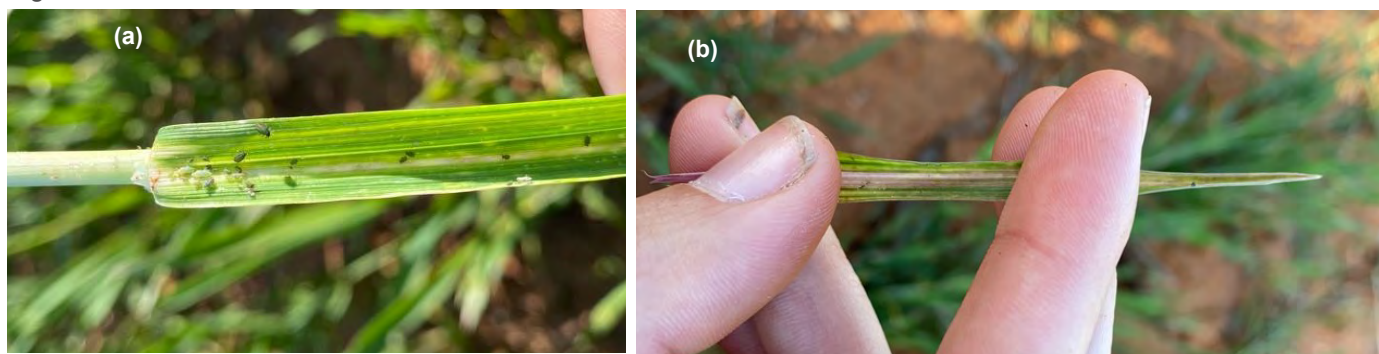


Fig. 1(a) Wheat leaf affected by RWA, with aphids at various developmental stages shown.

Fig. 1(b) Barley leaf showing typical RWA symptoms of longitudinal bleaching and purpling along the leaf.

Moving into spring, and hence warmer conditions, it is expected that the RWA will begin to rapidly grow and migrate. We therefore need to continue to monitor paddocks closely. It is also expected that natural predators of the pest will begin to grow in population. Beneficial predators of RWA include the parasitoid wasp (*Aphidius colemani*, *A. ervi*, *Diaeretiella rapae*) in addition to other generalist predators such as the humble ladybird, lacewing, damsel bug, hoverflies and entomopathogenic fungi. We have already experienced the ability of a natural predator, fungi, to control RWA populations, with conditions in 2016 enabling fungi to mummify the aphid and hence control populations without the need of an insecticide in some scenarios. Natural enemy populations must also be considered in addition to RWA thresholds prior to spraying. Spraying RWA when the populations are low, hence also spraying any natural predators at the same time, can sometimes result in the pest returning afterwards in greater populations, uncontrolled by natural predators.

Resources used in this article;

Working with nature - the role of natural enemies in agriculture (<https://grdc.com.au/resources-and-publications/grdc-update-papers/tab-content/grdc-update-papers/2016/08/working-with-natural-enemies-and-living-with-russian-wheat-aphid>)

Natural enemies of Russian wheat aphid identified in California (<https://ucanr.edu/repository/fileAccessPublic.cfm?fn=ca4706p24-70070.pdf>)

Russian Wheat Aphid – GRDC (<https://grdc.com.au/resources-and-publications/resources/russian-wheat-aphid>)

Russian Wheat Aphid – PIRSA (https://pir.sa.gov.au/_data/assets/pdf_file/0011/289703/Russian_wheat_aphid_PestNote.pdf)

Russian Wheat Aphid – Making Control Decisions (https://pir.sa.gov.au/biosecurity/plant_health/emergency_and_significant_plant_pests/russian_wheat_aphid_making_control_decisions)

*Disclaimer: This article is written from personal experience with RWA as a local agronomist in addition to resources I have had available and is therefore considered personally biased. I have not personally completed extensive scientific research on this subject matter. The article was submitted in September 2020 and circumstances may have changed by date of printing.

RCS Grazing Clinic

Understand grass growth

Refresh the basics

Manage your time and system better

The RCS Grazing Clinic is a practical hands-on workshop that develops your skills as a grass manager.

This power-packed two and a half day clinic will have you walking away with the confidence and practical know-how to go home and begin implementing.

- ✓ **Practical knowledge** – get the latest on cheap fencing, property layout, water design and moving stock. Understand how to assess rest period and calculate graze period, while accurately matching stocking rate to carrying capacity. See and learn the decision making processes **in the paddock**.
- ✓ **Control your grazing outcomes** – through the practical application of the principles, active use of the grazing chart, good use of the planning tools and good property design for this century.
- ✓ **Refresh the basics** through understanding the 6 essential grazing management principles. Develop the skills to monitor and record changes, understand how to adapt to seasonal and climate variability and develop strategies for profitable property planning and overall improved grazing management.

The course has a complete focus on implementation. We deal with the “real life stuff” that actually counts when it comes to getting the most out of your land, livestock and business.

“Good overview of soil health principles with an outline of regenerative farming principles.”

– Paul Serle, Mt Gambier SA

“A wake-up call for me. I can now feel more confident going forward in a very tight time.”

– Peter Davis, Cargo NSW

“Very inspiring whilst keeping it fully implementable for all operations, large and small.”

– Wayde O’Sullivan, Bowen QLD

Nuriootpa, Barossa Valley, SA: 23-25 October 2020

Early bird price: \$935 pp (incl. GST) Standard price: \$1375 pp (incl. GST)

(Available until 23 September)

TO REGISTER: <https://www.rcsgloballearning.com/courses/grazing-clinic-nuriootpa-2020>

Phone **1800 356 004**

Visit **www.rcsaustralia.com.au**

Email **info@rcsaustralia.com.au**





Get involved with the Red Meat and Wool Growth Program!

The Government of South Australia wants to work side by side with producers to increase the productivity and profitability of our producers and grow the state's cattle herd and sheep flock. This is the premise at the heart of the Red Meat and Wool Growth Program.

The Red Meat and Wool Growth program provides a strong pathway for the industry to become more resilient and forward looking with the focus on technology adoption, strategic skill development and enhancing biosecurity. For further information visit: pir.sa.gov.au/redmeatandwool

Recently two important initiatives of the Red Meat and Wool Growth Program have commenced. The Livestock Tech Talk series is dedicated to informing livestock producers on how adopting technology, infrastructure or best practice can add productivity, profitability and efficiency gains to their businesses. The first four podcasts have been released:

- Benefits of adopting electronic identification for sheep and cattle
- Getting it Right: Sheep and Cattle Yard Design
- Learning from Carwoola: Digital Technologies for different rural environments
- Saving time and money with remote water monitoring

Subscribe to our Livestock Tech Talks podcast on [Apple Podcasts](#), [Spotify](#) or search for 'Livestock Tech Talks' in your preferred podcast directory.

Livestock producers wanting to improve their businesses and plan for the future can now sign up to the Red Meat and Wool Program's Livestock Enterprise Planning sessions.

The cost to sign up is only \$100 + GST per business for which you will have access to a one day training session and a one-on-one coaching session where you will:

- examine your current business profitability
- identify how to improve your business performance
- identify strategies to minimise risks and drive productivity
- learn how implementing technology can drive productivity gains
- develop a Business and Technology Action Plan that will identify key actions to improve your business's performance and technology use.

Sessions will be delivered across the State. To find out more or register your interest in attending a planning session please visit pir.sa.gov.au/lep-workshops

The Red Meat and Wool Growth Program is an initiative from the Government of South Australia, supported by Meat & Livestock Australia, SA Sheep and Cattle Industry Funds and SheepConnect SA





Market Update

By Damian Bradford , Group Manager Accumulation. ADM is a UNFS Sponsor.

Wheat

Those in the trade still holding old crop wheat length have largely been active sellers and have been keen to clean up remaining stock given the inverse to new crop wheat.

Locally, the domestic end user remains a just-in time buyer for old crop supply, while any new crop interest predominately just price checking with little business executed.

South East Asian customer buying interest has predominantly been from Black Sea suppliers through Q3, and will remain so until around December once the Australian crop becomes available.

Barley

Forecasted barley production across Australia is anticipated to head north of 10Mmt, bolstered by an expanding crop in NSW.

From a global standpoint the IGC estimates global barley production in 2020/21 at 153.5Mmt, compared to 156.2Mmt last year.

Barley exports from France and Argentina have supplemented the reduction of Australian feed and malt supply to China over the 2020 marketing year. While there is some talk this will continue, it's more likely supply will switch to the likes of the Ukraine and Canada as they look to move recently harvested grain.

Canola

The overall oilseed complex has been kept firm lately, with soybeans rallying to fresh highs across most months as the September contract went off the board. US soybean crop ratings have been a driver, particularly in Michigan, South Dakota and Iowa, which has seen declines as a result of ongoing dry conditions.

European and Black Sea farmer selling has slowed with the completion of harvest there,

and crush margins remain healthy both on crude and bio-fuels.

As a general comment, the Australian canola crop is in good shape at the moment.

The current Canadian crop is in good to excellent condition, and production is pegged at 18.9 million tonnes, up slightly from the previous year.

Lentils

Canadian lentil harvest is well under way, and yields so far look exceptional which is pointing to a substantial increase in supply out of Canada.

Global demand currently looks stable to slightly bullish, with India still the swing factor. Therefore it is generally being assumed that the duty will revert back to 30% for Indian lentils imports since the original government announcement in June stipulated that it would return to that level if not stated otherwise.

Back here in Australia, lentil 20/21 planted area looks to be 5-10% higher nationally. The bulk of that area is in Victoria and South Australia where yield potential remains respectable, though finishing rains are still needed.

Faba Beans

UK and Baltics crops (Aussie major competitors) are a little larger this year but with harvest just underway quality is still a moving target.

Aussie acreage is substantially higher compared to 19/20 with SA and Victorian hectares up 10%. In addition indications suggest 40-50,000 hectares have been planted in NSW this year after several poor years due to drought.

Depending on the final outcome of spring weather in SA and Victorian production could be 40-60% higher compared to last year.

WOOLGROWERS'
E-NEWSLETTER

OCTOBER 2020

Wool Industry Safety Notice: Serious Incidents

Australian Wool Handlers (AWH) Gillman have recently experienced three serious safety incidents, due to incorrect loading of bales of wool onto transport carriers.

The correct procedures for the loading of wool are outlined in the link below, to create a safe work environment for all industry participants. [Click HERE](#)





The new GrainFlow Grower Delivery Application was introduced at GrainFlow this harvest, the service is an online form that gives customers an alternative to filling out the paper Grower Delivery Form. The App allowed the customer to receive and check sampling results in real time. It also helped GrainFlow plan better at site, with greater visibility to what grain and trucks were headed their way. The App is part of Cargill's ongoing investment into GrainFlow sites. The Grower Delivery App is mandatory and growers who prefer to use the paper forms were able to do so. However, GrainFlow are encouraging more growers and drivers to try the app as they believe it will give you a better experience in the long-term and help with keep the site as efficient and possible. 50% of all deliveries to GrainFlow Crystal Brook for season 2019/20, were done via the Grower Delivery Application, which was pleasing for the first season. We hope to get feedback from customers who used the application so we can try and improve where needed.

The Grower Delivery App is different to the regular GrainFlow app you may be familiar with. The GrainFlow app is still the place to get your grain prices, site contacts and to login to your account to see your delivery information. The Grower Delivery Application is simply a web form that replaces the paper grower delivery form and provides you with sample results and options to warehouse or sell.

We believe there are multiple benefits to using the new Grower Delivery Application, such as;

- It's simpler and improves accuracy as it reduces the need for customers to fill out repetitive paper forms like the Grower Delivery Form. Given the customer can input the information it is also less prone to interpretation error.
- It puts you in control as you can see if the delivery is in progress or completed. You will get notified immediately of the quality analysis of your delivery so you can accept the quality analysis and nominate selling or warehousing decision immediately if you wish.
- It will help GrainFlow to better plan our operations for things like opening hours and equipment allocation for your delivery.
- It is safer. Drivers do not need to repeatedly get out of trucks to deliver their load or hand over tickets.
- It helps GrainFlow to be more responsive to you and communicate the results of your sample immediately or to your nominated driver.
- The technology on site is an investment in your site and its future. It is also an investment in your supply chain so we can make it as efficient, competitive and accessible as possible.

To register/sign up for the new web-based Grower Delivery App go to

<https://www.grainflow.com.au/grower-delivery-app> and click on **"how do I register"**.



Testing reveals need to control herbicide resistance

A long-term Grains Research and Development Corporation (GRDC) program monitoring herbicide resistance in significant weed species has revealed increasing rates of resistance to a wide range of herbicides.

This means growers will need to consider tactics such as double-knock spraying and harvest weed seed control to help them keep resistant ryegrass populations at bay.

Researchers from the University of Adelaide collected ryegrass seed from 325 randomly selected paddocks across parts the southern growing region between October and December 2019. These were grown in pots and sprayed with herbicides at label rates in May and June 2020.

Researcher Dr Peter Boutsalis said herbicide resistance had clearly increased over the program's 2009, 2014 and 2019 surveys. "Our results from the lower Eyre Peninsula, upper Eyre Peninsula and south-western Victoria all show increasing resistance to various herbicides," he said. "For example, the ryegrass samples from south-western Victoria showed no resistance to trifluralin in 2009, but that increased to two per cent of samples in 2014 and reached 17 per cent in 2019. "On the lower Eyre Peninsula, the rates of resistance to trifluralin were 10 per cent in 2009, then 51 per cent in 2014 and 66 per cent in 2019."

Dr Boutsalis said the increasing rates of resistance were not restricted to any one herbicide group or region. As strains with a specific resistance evolved, they quickly established themselves in the local area. "One of the most concerning increases in resistance was to glyphosate in south-western Victoria where resistance was detected in four per cent of randomly collected ryegrass samples in 2014 but 39 per cent of the samples collected in 2019," he said. "Resistance to imidazolinone herbicides has also increased to alarming levels. "On the upper Eyre Peninsula, the incidence of resistance to imidazolinone herbicides was 30 per cent of samples in 2009, rose to 39 per cent in 2014 and comprised 88 per cent in 2019."

Dr Boutsalis said identifying and keeping herbicide-resistant weeds at manageable levels was essential for the long-term viability of chemical actives like glyphosate in Australian cropping systems. "If the weeds grow through to flowering their pollen can carry the resistant gene across a wide area via wind dispersal, plus the resistant seeds can be spread via several methods including farm equipment and livestock," he said. "Undetected resistance on one farm can lead to that strain getting established, which creates a problem for surrounding paddocks."

"Growers who are aware of their resistance problems know to focus on tactics such as harvest weed seed control and double-knock spraying. "If they treat every glyphosate survivor with paraquat over the next two seasons, they should be able to significantly reduce weed populations."

Growers and agronomists can send living plants collected from paddocks between autumn and early spring for resistance testing ('Quick Test'). Additionally, seeds collected at harvest time can be sent for testing over summer and reporting in early autumn.

Further information is available from [Plant Science Consulting](#) in Adelaide or the Charles Sturt University [Plant Interactions Research Group](#).

More information on herbicide resistance and weed management is available in the [GRDC Integrated Weed Management Manual](#) and via the GRDC-supported [WeedSmart](#) portal.

WeedSmart is the 'single industry' multi-channel platform for information on combating cropping weeds and herbicide resistance in Australia.



Know the limits and risks when it comes to pre– harvest herbicide use

Growers planning pre-harvest herbicide applications are being urged to arm themselves with the required knowledge to avoid grain rejection from domestic or international markets.

The risks associated with pre-harvest herbicide use for late season weed management or crop desiccation need to be weighed against potential grain market requirements. By adhering to the product label Directions for Use, growers will ensure that any detectable residues will meet Australian Maximum Residue Limits (MRLs).

However, importing country MRLs may differ to the Australian MRL. Growers are encouraged to seek advice from their grain buyers regarding any additional market requirements that might impact on their management choices prior to herbicide application.

To guide growers through their decisions, the GRDC has published the Pre-Harvest Herbicide Use Fact Sheet.

<https://grdc.com.au/news-and-media/news-and-media-releases/south/2020/september/paddock-practices-know-the-limits-and-risks-when-it-comes-to-pre-harvest-herbicide-use>

Upcoming Events Calendar

November

5	Jamestown Market	Jamestown Office 8664 108
19	Jamestown Market	Jamestown Office 86641108

December

10	Jamestown Market- Feature with Lamb Market	Jamestown Office 86641108
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Funding Bodies



Mallee Sustainable Farming



Delivery Partners



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Gold Sponsors



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