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Australian Pork

NEWSPAPER



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Have an effective mosquito management program that targets all stages of the mosquito life cycle in place. Photo: Egor Kamelev

Reducing risk of JEV in pigs

IF you work with or have contact with pigs, including small herds or pets, you should take steps to control mosquitoes on your property and continue to use effective biosecurity measures.

You should have an effective mosquito management program in place that targets all stages of the mosquito life cycle using a combination of non-chemical and chemical methods.

This requires a combination of:

- Environmental management to reduce mosquito breeding and resting sites
- Treating the larvae – larviciding
- Treating the adults – adulticiding
- Ongoing monitoring and surveillance
- Record keeping.

To reduce the risk of infection in your pigs:

- Treat or remove potential mosquito breeding sites
- Spray or fog the outside of sheds regularly with a handheld or commercial spray unit with approved insecticide

• Disperse approved mosquito larvicides over water bodies close to sheds, that cannot be drained

- Remove water lying around sheds and roads
- Remove weeds and mow long grass
- Monitor mosquito numbers daily, inspect water bodies and water-filled containers for wrigglers and check facilities for resting adult mosquitoes (ceilings, walls), and if mosquitoes remain abundant, consider additional mosquito control

• Speak with your local council about their mosquito management timetable in your area, this can assist with your mosquito management planning for your property.

Seek professional advice about using chemicals to control mosquitoes. Chemicals for mosquito control should only be used by people authorised in accordance with Australian training and licensing requirements. Only use chemicals

that are registered for use on pigs, pig feed or surfaces pigs may contact. Ensure you use chemicals in a way that they do not drift onto pigs. Pig producers should also continue to use effective biosecurity measures in the National Farm Biosecurity Manual for Pork Production.

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Scan to read about mosquito control around piggeries.



Scan for the National Farm Biosecurity Manual for Pork Production.

Shaping animal welfare future for pork industry

THE Australian pork industry has always led the way on animal welfare standards, driven sustainable farming practices and provided consumers with high quality, affordable and nutritious pork.

Many producers will be aware that our industry is leading the development of a national Australian Animal Welfare Industry Standards and Guidelines.

I am proud that Australian Pork Limited has been endorsed by our industry to lead this process and will be working closely with government, Animal Health Australia and key industry and animal welfare stakeholders over the next few years to develop these national standards.

This is a significant moment for our industry.

For the past four decades, every Australian state and territory has been responsible for developing its own code of practice and legislation regarding the welfare of livestock animals.

Now, for the first time, we will have national welfare guidelines.

A national framework developed in close consultation with industry will leverage the expertise and experience of our producers and animal welfare experts.

It will give governments and lawmakers



Point of View

by MARGO ANDRAE
CEO



confidence in clear science-based standards that are practical, measurable and able to be consistently reflected in legislation across all jurisdictions nationwide.

Despite the complexity of our operating and regulatory environments, our industry is a leader in sustainable and ethical farming – Australian pork has a great story to tell.

Our Australian Pork Industry Quality Assurance program, which is also undergoing a major review this year, helps producers maintain high standards for all areas of pig production in Australia, from food safety and animal welfare to biosecurity and traceability.

Since the 1980s, Australian pork producers have reduced on-farm emissions by more than 70 percent and APL's sustainability framework will continue to drive new approaches for climate-friendly programs across the entire pig production system.

Our biosecurity regulations and our producers' commitment to

upholding strict biosecurity protocols on-farm keeps their herds safe from infectious disease.

Now, we have the opportunity to take ownership of the development of national guidelines that strike the right balance in upholding the ethical treatment of animals while safeguarding the economic viability and infrastructure of the Australian pork industry.

As an industry, we have invested millions of dollars into developing evidence-based welfare practices.

Our involvement in this process will be crucial to delivering national standards and guidelines that actively safeguard and enhance the health and well-

being of our pigs, while being grounded in science and reflecting the realities of modern farming.

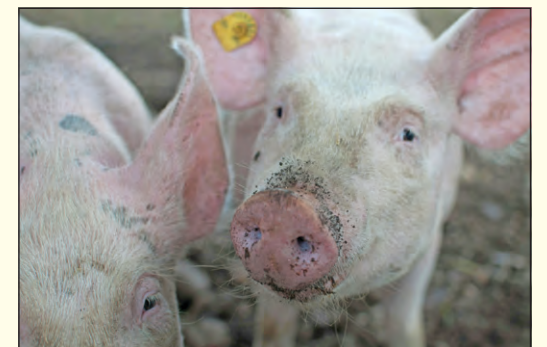
No one cares more about animal welfare than our hardworking farmers.

Throughout the Victorian parliamentary inquiry into pig welfare, and despite ongoing illegal activity from activists, they continued to demonstrate best-practice care.

Industry will continue to be consulted throughout this process, and your involvement will help ensure the development of practical science-backed guidelines that are fit-for-purpose for our producers, who work hard every day to maintain high welfare standards for their pigs.

I am proud to be part of an industry that leads with science and evidence-based animal welfare.

Thank you to our producers for your ongoing support – your dedication and collaboration will be pivotal as we develop these guidelines together.



APL leading the development of the national standards and guidelines. Photo: Mali Maeder

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Pork Industry Calendar of Events

2025

MAY 3-8 – IFFA 2025 – Frankfurt, Germany. <https://iffa.messefrankfurt.com/>

JUN 4-5 – World Pork Expo – Des Moines, Iowa, USA. <https://www.worldpork.org/>

JUN 18-19 – Ontario Pork Congress – Ontario, Canada. <https://www.porkcongress.on.ca/>

JUN 25-28 – Livestock Philippines – Pasay City, Philippines. <https://www.livestockphilippines.com/>

JUL 13-16 – National Pork Industry Conference – Iowa, USA. <https://www.porkconference.com/>

AUG 15-16 – Kingaroy BaconFest – Kingaroy, Australia. <https://www.kingaroybaconfest.com.au/>

SEP 20-23 – Allen D. Leman Swine Conference – Minnesota, USA. <https://lemanconference.umn.edu/>

OCT 15-16 – Dutch Pork and Poultry Expo – Den Bosch, Netherlands. <https://www.porkpoultryexpo.nl/en/>

OCT 18-20 – Leman China Swine Conference and World Swine Industry – Changsha, China. <https://www.lemanchina.com/>

NOV 17-19 – APSA Conference – Melbourne, Australia. <https://www.apsa.asn.au/>

How to supply event details:
Send all details to **Australian Pork Newspaper, PO Box 162, Wynnum, Qld 4178, call 0450 672 553 or email design@collins.media**

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The revised national code of practice and standard operating procedures for the humane control of feral pigs are now available on the PestSmart website for viewing and download. Photos: NSW Local Land Services

Revised national CoP and SOPs now available for feral pig management

IN the same way the Model Code of Practice for the Welfare of Animals - Pigs provides guidance for all those responsible for the welfare of domestic pigs across different housing systems, the National Code of Practice for the Humane Control of Feral Pigs – CoP – provides national direction for the effective and humane management of feral pigs in Australia.

Irrespective of the status given to a particular pest species or the extent of damages or impacts that they cause, minimising animal suffering is a priority.

This means the most humane methods must be used to minimise individual animal suffering, while optimising the goals of the management program.

It is important that government agencies, land managers and vertebrate pest animal contractors can access the most relevant and current information and guidance to ensure the control techniques applied are the most humane, effective, target-specific and economic available.

In May 2023, the Terrestrial Vertebrates Working Group, a sub-committee of the Environment and Invasives Committee, requested the National Code of Practice for the Humane Control of Feral Pigs and its Standard Operating Procedures – SOPs – be reviewed and updated.

This activity was coordinated by the National Feral Pig Management Coordinator.

Guidance, input and reviews were sought from the multi-jurisdictional membership of the TVWG, animal welfare non-government organisations, the National Feral Pig Action Plan's Implementation Committee and Scientific Advisory Panel, Centre



NATIONAL FERAL PIG ACTION PLAN

by **HEATHER CHANNON**
National Feral Pig Management Coordinator



for Invasive Species Solutions and operational and policy government staff.

The revised national CoP and SOPs were based on the original work by Sharp, Cope and Saunders titled 'NSW Code of Practice and Standard Operating Procedures for the Effective and Humane Management of Feral Pigs'.

The revised national CoP and SOPs are now available on the PestSmart website for viewing and download – scan the relevant QR code below.

Current knowledge and experience of best practice feral pig management has been incorporated into these documents.

The national CoP and SOPs set minimum animal welfare standards and do not override CoP and SOPs that have been developed by state and territory jurisdictions to address specific management issues and/or to comply with relevant legislation.

It is important to note that specific regulations regarding labelling and availability in how control techniques can be used in each state and territory must be complied with.

The national CoP includes information on feral pig ecology and behaviour, primary and supplementary feral pig management methods, humaneness of control techniques and relevant legislation.

Guidance to assist land managers with choosing

which control method to use in terms of its humaneness, efficacy, cost-effectiveness and target specificity is also provided.

National SOPs provide detail on how the specific control techniques should be applied, animal welfare implications for target and non-target animals, workplace health and safety considerations, equipment required and strategies to minimise any harmful impacts.

Attention to detail is necessary for delivering effective programs with humane outcomes of feral pig management programs – the experience and skills of those using any control technique can influence its humaneness and effectiveness.

In many areas, workshops are held to build the capacity and capability of all land managers to enable them to use best practice management methods humanely and effectively.

Training in the use of monitoring methods is also included in these workshops.

These opportunities are regularly advertised in the NFPAP's newsletter.

If you require further assistance with this, please reach out.

The national SOPs endorsed by the Environment and Invasives Committee in October 2024 were:

- NATSOP-PIG001 National Standard Operating Procedure: Aerial Shooting for Feral Pigs
- NATSOP-PIG002

National Standard Operating Procedure: Ground Shooting for Feral Pigs

• NATSOP-PIG003 National Standard Operating Procedure: Trapping for Feral Pigs

• NATSOP-PIG004 National Standard Operating Procedure: Baiting (1080) for Feral Pigs

• NATSOP-PIG005 National Standard Operating Procedure: Using PIGOUT 1080 Baits

• NATSOP-PIG006 National Standard Operating Procedure: Baiting (HOGGONE) for Feral Pigs.

For more information on how to apply these best practice management methods for feral pigs, videos have been prepared by both Agriculture Victoria and NSW Local Land Services.

The links to these can be accessed via the NFPAP's website – scan the relevant QR code below.

Yellow phosphorus – otherwise known as CSSP, calcium disulphide and phosphorus, or SAP, sodium acetate phosphate – and war-

farin are considered inhumane methods for the control of feral pigs.

Warfarin is not registered for feral pig control in Australia and yellow phosphorus is only registered for use in the Northern Territory, having been banned in Queensland in December 2022.

Therefore, no national SOP is available for yellow phosphorus.

These methods were both rated low on the relative humaneness matrix – scan the relevant QR code below to view.

If you have any questions related to effective feral pig management, contact me on Heather. Channon@feralpigs.com.au or 0423 056 045.



Scan for the relative humaneness matrix.



Scan for more information on how to apply best practice management methods.



Scan for the revised national CoP and SOPs on the PestSmart website.



A feral pig and pest program net trap with feral pigs.

Mycotoxin news from dsm-firmenich

Deactivate Mycotoxins Activate Performance



Powered by science to actively defend against multiple mycotoxins*

Get to know the mycotoxin DON

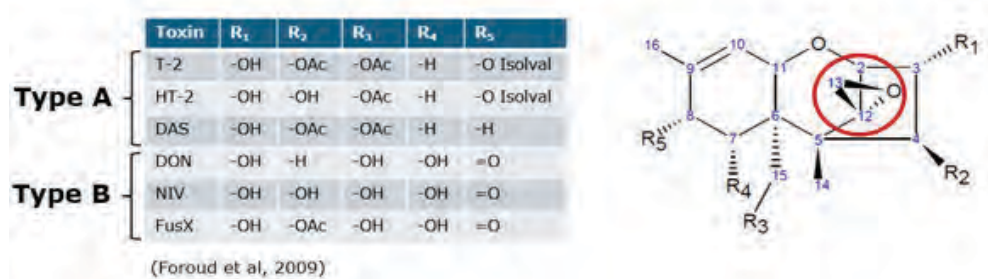
As reported in a previous article in Australian Pork Newspaper, results from the long running dsm-firmenich Global Mycotoxin Survey consistently identified that the three major mycotoxins of economic importance in feedstuffs for pigs in Australia are deoxynivalenol (DON), fumonisins (FUM) and zearalenone, with aflatoxin and ergot alkaloids making regular appearances. Looking into data for the last three years, fumonisins were the most frequently detected mycotoxin class (64% of samples had FUM) with DON being detected in 43% of samples with an average contamination level of 499 ppb, which is deemed to be a significant risk for all pigs.

Deoxynivalenol (also known as vomitoxin) is commonly found in grains, by-products and bedding materials. In simple terms, DON affects how proteins in the body are synthesised. There are many proteins in the body which have a high turnover rate (that is they are constantly been made and broken down and re-made as part of their functionality). Proteins with a high turnover rate are particularly affected by DON and these include the gut wall lining and the array of immunoglobulins and other proteins involved in immunity and health. The effects of DON are typically seen as reduced feed intake and nutrient absorption (and therefore variability in growth rate) and depressed immunity. Depressed immunity in combination with the effects of DON on the gut wall are known to make pigs more susceptible to diseases in general but specifically can lead to an increased risk of enteric (gut) diseases.

Deoxynivalenol is one mycotoxin in a larger family of substances called trichothecenes. There are over 400 different trichothecenes identified to date.

Chemically speaking, the trichothecenes have a sesquiterpenoid structure and all contain an epoxy ring at the Carbon 12 position (red circle in Figure 1). Figure 1 below indicates how the attachment of different compounds at different positions in the molecule gives rise to this large number of trichothecene variants. Furthermore, in nature, to protect the plant from the effects of the mycotoxin, the plant will often conjugate (join) a sugar molecule to the mycotoxin. These new structures are called masked mycotoxins, such as DON-3-glucoside, and are not routinely detected by rapid tests such as ELIZA or HPLC. In the pig however, the glucose molecule is cleaved from the masked mycotoxin and the resulting DON is returned to its toxic form.

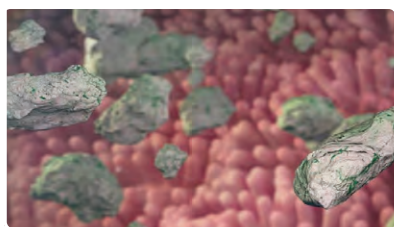
Figure 1: Characteristics of different trichothecenes



With so many different chemical forms of trichothecenes it is extremely difficult for simple binders to successfully adsorb all the trichothecenes. While the epoxy ring imparts the toxicity of DON to pigs, the ring is also the target of the irreversible, deactivation strategy of the EFSA authorised BBSH® enzymes contained in Mycofix® Select and Plus. Consequently, one ingredient will give wide ranging protection against all the trichothecenes.

For more information on the Mycotoxin Survey results, mode of action of the ingredients in the Mycofix® range and how you can mitigate the effects of mycotoxins in your herd please contact Tanya Calitz, details below

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tanja.calitz@dsm-firmenich.com or 0499 757 616

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For more information on Mycofix Solutions scan here





Tony Iannello, former long-standing D'Orsogna chair and non-executive director.



The author (second from right) engaged with D'Orsogna chair Tony Iannello (left) at the 2019 dinner at Crown Perth to honour Brad Thomason's retirement after 20 years as D'Orsogna managing director. Brad subsequently joined the board as a non-executive director, working alongside Tony.

Here's cheers to chair of D'Orsogna

GOOD friend, client and sometime mentor, Tony Iannello stepped down from the board of leading national smallgoods company D'Orsogna Limited in January, having served as a non-executive director for more than 12 years, mostly as chair.

In Tony's view, good corporate governance practices suggest independent non-executive directors should serve no more than 10 years on boards.

Hence, he decided now was the right time, and appropriately consulted with shareholder directors before making his move.

Tony had served a little beyond his 10-year timeframe to help transition Jason Craig into his managing director role, which he began at D'Orsogna in mid-2023.

Tony told me he had been privileged to work with such wonderful and capable people on the board and in the D'Orsogna management team.

He acknowledged some tough times, but

Cant Comment
by BRENDON CANT

had been delighted with the way the board and management had been able to tackle challenges and move forward.

Greg Harvey, who has served on the board as an independent non-executive director since July 2021, has been appointed chair.

While Tony has an exemplary business and professional resume, his sporting achievements on the cricket and football fields with me at our old school – known as St Brendan's believe it or not – are appropriately not listed.

After a successful career as a senior executive and chief executive officer, Tony embarked on a career as a non-executive director, subsequently being appointed to numerous



boards of varying sizes, covering a broad range of industries with very different challenges.

He is currently chair of Collgar Renewables.

Prior appointments include chair of HBF Ltd and Empire Oil and Gas, and non-executive director of AusNet Services Ltd, ERM Power Ltd and Western Australia's Water Corporation.

Collgar, owned by Rest Super, owns the largest wind farm in WA.

Tony holds a Bachelor of Commerce degree, is a graduate of the advanced management program at the Harvard Business School, fellow of the Australian Institute of Company Directors, senior fellow of the Financial Services Institute of Aus-

tralia and fellow of the Australian Society of Certified Practising Accountants. Prior executive experience included a range of senior executive positions at Bankwest and managing director of Western Power, when it was a fully integrated energy utility.

Tony told me Collgar was keen to expand its portfolio and was progressing a number of projects.

"While they will keep me busy, if another suitable board role becomes available, I will consider it, but no more than one other," he declared.

I wish Tony all the best for the future.

He has made a very considerable impact on Western Australia's business environment and, for more than a decade, a particularly significant impact on Australia's smallgoods sector via his board roles with D'Orsogna.

Most importantly, he's a top bloke, an absolute pleasure to work with and always fun to chat with about our shared love of Italian food and red wine. 🍷

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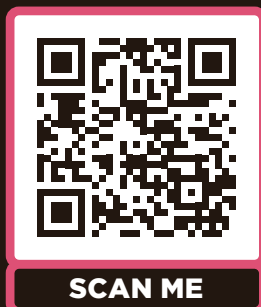
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Haylee Clifford 0456 498 120
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The Australian pig industry has continued to progress pig welfare research. Photo: iStock

Welfare research to help inform national pigs standards and guidelines

INVESTING in pig welfare research is investing in the future of our industry, which is why the Australian pork industry is pursuing an industry-led review of the Model Code of Practice for the Welfare of Animals – Pigs.

In Australia, the development of the Animal Welfare Standards and Guidelines is based on robust scientific evidence of animal welfare outcomes and commercial practicality.

Since the last model code review in the mid-2000s, the Australian pig industry has continued to progress pig welfare research.

This, along with international studies, will be assessed in a scientific review of pig welfare research, currently being undertaken by the Animal Welfare Science Centre at the University of Melbourne.

This review will be completed in June this year and is an important first step in the pigs standards and guidelines review process.

There are also several other exciting projects underway in the industry that will further inform the pigs standards and guidelines.

SunPork is working to identify the most effective, practical and readily available alternate methods for euthanasia and pain mitigation for tail-docking in piglets.

Potential methods will be assessed

against criteria, including animal welfare, economic outlay, labour requirements, staff confidence with use of the technology and safety and training requirements.

The AWSC and SunPork are also investigating the effects of floor space on the welfare of finisher pigs under Australian conditions.

This research follows on from work that demonstrated how progeny pigs grow into a space until they reach the minimum space allowance required under the current Model Code (K value = 0.030).

This research will examine whether reducing space allowance towards the minimum space allowance for finisher pigs at various stages will affect pig welfare based on well-accepted behavioural, physiological and fitness indicators.

This will be the first scientifically robust study of its kind that looks at progeny space allowances.

Research looking at the provision of enrichment to sows prior to giving birth has shown that environmental enrichment based on good welfare outcomes is as good as or better than 'prescriptive' enrichment, such as straw.

Researchers from the South Australian Research and Development Institute showed that provision of pre-farrowing nesting material such as a square of hessian and a higher

fibre pre-farrow diet was just as effective as the provision of long-stemmed straw in terms of sow welfare, with less complications arising from the management of straw in systems with effluent pits.

There are also new developments in workforce research and training that also support animal welfare.

ProHand Pigs is one of our industry's most successful and utilised stockperson training programs.

The ProHand training program, originally developed by Australian Pork Limited and the AWSC, uses cognitive-behavioural training in which the key attitudes and behaviour of stockpeople are targeted for improvement.

ProHand training successfully improves the attitudes and behaviour of stockpeople towards pigs, with consequent beneficial effects on animal fear, stress, productivity and meat quality.

Work is also underway to improve the ProHand program available for abattoir stockpeople working in lairage to make it more fit-for-purpose, improving ease of pig handling and welfare as well as stockperson job satisfaction.

APL is also planning to develop a ProHand pig transport module to help improve pig handling and welfare during transport.

Rebecca Athorn
APL R&I PM
Farming and Welfare

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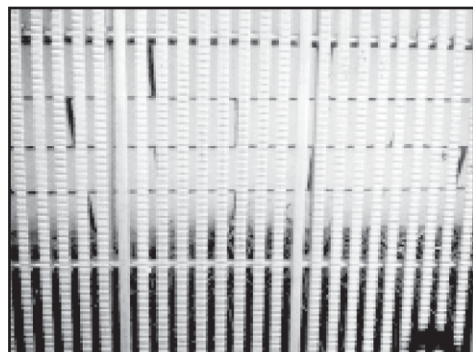


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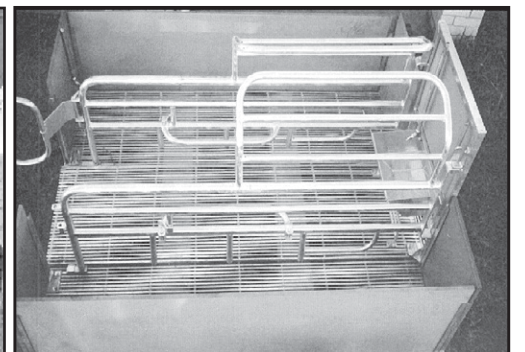
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The Gorman-Rupp 86B3 self-priming pump securely mounted on the lagoon bank eliminates the need for workers to enter or operate directly on the water.

Smart pump solution transforms abattoir wastewater management

FLETCHER International Exports stands as one of Australia's most integrated processors and exporters of lamb and sheep meat products.

This private family-owned enterprise operates two state-of-the-art facilities, one in Dubbo NSW and the other near Albany in Western Australia.

Together these plants process over 90,000 sheep and lambs each week, more than 4.5 million annually.

Guided by a philosophy of maximum resource utilisation, Fletcher International not only produces lamb and sheep meat but also a wide array of premium by-products, including wool and sheep skins.

Their commitment to efficiency extends to every facet of their operations, including wastewater management – a critical yet often overlooked aspect of abattoir operations.

A revolutionary approach to wastewater management

For Alan, a seasoned operator in the abattoir industry, finding the perfect balance of safety, reliability and efficiency in wastewater management was a priority.

His solution?

Pairing Gorman-Rupp self-priming pumps with Venturi-Aerators, a transformative decision that redefined his operations.

Safety redefined

One of the stand-out features of Alan's setup is its unparalleled focus on operator safety.

The Gorman-Rupp 86B3 self-priming pump securely mounted on the lagoon bank eliminates the need for workers to enter or operate directly on the water.

This design ensures safe and straightforward access for maintenance, a critical advantage in high-risk environments such as wastewater lagoons.

Reliable performance, minimal maintenance

When discussing the maintenance the system has required with Hydro Innovations Western Australia regional man-

ager Heath McAvaney, Alan said the amount of time saved on maintenance since installation made the purchase of the system "one of the best decisions" the business had made.

The system has proven remarkably reliable, with only minor belt issues, and the belts were supplied by a third party.

Beyond that, the setup has required minimal upkeep, a rarity in the demanding world of wastewater management.

Enhanced aeration for better compliance

The Venturi-Aerator complements the system by injecting oxygen-rich water back into the lagoon.

This innovative process enhances the aerobic treatment of wastewater, improving its quality and ensuring compliance with stringent environmental standards.

Practicality in design

Practicality is at the heart of this system.

Positioned conveniently at the lagoon's edge, it allows for safe and efficient maintenance without unnecessary complications.

For Alan, who prioritised safety and efficiency from the outset, this design feature has been invaluable.

A smart investment in long-term success

In industries where downtime and inefficiency translate to significant costs, Alan's experience is a compelling testament to the value of smart dependable solutions.

His investment in Gorman-Rupp pumps and Venturi-Aerators has delivered exceptional performance, peace of mind and long-term savings.

For wastewater operators seeking effective solutions, Alan's story underscores a vital lesson – choosing the right equipment is more than a purchase, it's a strategic investment in safety, reliability and operational success.

To explore how Gorman-Rupp's EchoStorm aerator and self-priming pumps can


address your water and wastewater challenges, contact Hydro Innovations at 02 9898 1800 or visit hydroinnovations.com

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Fears feral pigs could spread JEV in Queensland

FARMERS are concerned that unchecked feral pig populations could contribute to the spread of Japanese encephalitis virus, a rare but serious mosquito-borne disease detected in three states.

Biosecurity Queensland confirmed recently that JEV had been found at two piggeries in southern Queensland, with detections also occurring in NSW and Victoria.

Concerns were growing with the arrival of wet season rains creating ideal breeding conditions for two key carriers of the disease — mosquitoes and feral pigs.

Desert Channels Queensland operations manager Geoff Penton said the situation posed a risk for northern Queensland.

“All it takes is a mosquito to have bitten one of those pigs that have been detected with JEV then sting a feral pig out in the wild,” Mr Penton said.

Adding that the more opportunity there was for mosquitoes to get into feral pigs, the more chance of continuing the spread.

He warned that feral pigs could act as ‘reservoirs’ for the virus, which can be transmitted to humans through mosquito bites.

“Japanese encephalitis has been known to be fatal to humans in extreme cases,” he said.

“It’s pretty serious ... we need to look at our efforts to reduce feral pig numbers.”

This was the first time JEV had been detected in animals in Queensland since 2022 when the virus was found in more than 80 piggeries across four states, prompting an emergency health response.

By the end of the outbreak a year later, feral

health authorities reported that 45 people had been infected and seven had died.

Most JEV infections are mild, with the World Health Organisation estimating that only one in 250 cases become severe.

However, those who develop serious illness can suffer lifelong health complications.

Prior to the 2022 outbreak, JEV was thought to be limited to seasonal transmission in northern Australia.

However, the Department of Agriculture, Fisheries and Forestry now considers the virus to be established on the mainland.

Accurately assessing the role of feral pigs in spreading the virus is difficult due to a lack of reliable population data.

However, University of Queensland School of Chemistry and Molecular Biosciences virologist Associate Professor Dr Jody Peters said there was no doubt they played a significant role.

“What is probably propelling the incidence, or the circulation of this virus, is our huge feral pig population,” Dr Peters said.

Adding that pigs were typically part of the natural transmission cycle of the mosquito-borne virus.

“As well as humans getting the JEV vaccine, mosquito management and wild pig management may, from a biodiversity perspective, be the way

forward,” she said.

While research into a vaccine for animals is ongoing, Dr Peters advised that people working or living near piggeries, as well as those hunting kangaroos and pigs, should take extra precautions to prevent mosquito bites and consider vaccination.

In addition to human health risks, JEV can cause reproductive losses in pigs and illness in horses and birds.

However, it cannot be transmitted through meat or from person to person.

Despite this, north-west Queensland cattle producer Lloyd Hick said JEV still posed a serious risk to the livestock industry.

“Once these diseases get into uncontrolled herds of any feral animals, there’s the risk of it spreading,” Mr Hick said.

“We never really know where it may end up.

“There’s a real risk of this potentially being another issue for people on the land.”

As chair of farm industry group AgForce’s cattle board, Mr Hick said the outbreak was a strong reminder that urgent action was needed to control feral pig populations and there was a need to find a way to cull the numbers.

“We need to put a break in that cycle,” he said.



Feral pigs in Stonehenge, western Queensland. Photos: Desert Channels Queensland



European Commission

Sustaining our quality of life: food security, water and nature

A Vision for Agriculture and Food

February 2025

Shaping together an attractive farming and agri-food sector for future generations

Dubiety for Europe’s agriculture industry with the end of the cage age and other influences.

Uncertainty continues for farmers in EU

IT is a strange time to be in the European Union at the moment, particularly when involved in the agricultural industry.

On the one hand, prices are currently holding steady for pig farmers — principally in the Netherlands, with thanks to the state purchase program, recent Carnival celebrations and upcoming spring barbecue season — there is increased competition between Dutch slaughterhouses for suppliers.

When comparing the first ten weeks of 2025 to the same period last year, about 40 percent fewer Dutch pigs are being delivered to Germany for slaughter.

And the markets are stabilising in Germany, France and Denmark, with Danish Crown reporting that it expects a significant increase in demand while sales opportunities are stable.

The demand for slaughter pigs in Spain remains very high — all good things for farmers and the industry.

On the other hand, it feels as though — at least in my experience — that there has never been so much uncertainty in the EU, and it is coming from many sides.

New welfare legislation on the loose housing of



Nordic News

by ASHLEY NORVAL

sows in lactation is yet to be finalised in Denmark, though it seems a done deal that the required pen size will be 6.5sq m, in line with German legislation.

A new ‘Vision for Agriculture and Food’ has been released by the European Commission, replacing the ‘Farm to fork strategy’ with ‘Shaping together an attractive farming and agri-food sector for future generations’.

The vision emphasises “close engagement with relevant institutions, farmers, food chain operators and civil society at local and regional levels, addressing their concerns and ideas” — while the focus is definitely less on the green transition, the animal welfare legislation and proposed changes to animal housing across the EU as a result of the ‘End the cage age’ remains in focus.

Foot and mouth dis-

ease was detected in Kisbajcs Hungary, 1km from the border of Slovakia on March 7 in a cattle herd.

This means that Hungary has now lost its FMD-free status and, due to the proximity to Slovakia, many countries have enacted the restriction of commercial imports of susceptible commodities, which applies to both countries.

This outbreak comes less than two months after FMD was detected in a herd of water buffalo in Germany on January 10, a recurrence of the disease 37 years after the last known German outbreak.

Though no pigs have been detected with FMD, thankfully, it does impact the movement of animals both for slaughter and breeding stock, with the effects to be seen in coming months.

And perhaps the most uncertain of all — the

influence of the US political administration on the EU, and indeed the rest of the world.

As perhaps many readers are aware, President Trump has tried to acquire Greenland — currently part of the Kingdom of Denmark — for the second time, which has been met with complete disdain by Greenlanders and the Danish people.

Subsequently, the US has threatened economic sanctions unless Denmark hands over control of Greenland.

Yet, unbelievably, there came a request recently for the importation of Danish eggs, due to the shortage in the US.

From a greater EU perspective, there is an escalating trade war between the US and EU as a result of US applied tariffs to EU products.

And in combination with ongoing US interference in the Russia-Ukraine conflict, on March 4 EU president Ursula von der Leyen announced the ‘ReArm Europe’ plan — a plan that could mobilise close to 800 billion Euro for a ‘safe and resilient’ Europe.

One can only hope that all parties come to their senses before things become even more serious.

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Environment paid ultimate price for plenty of pork on Chinese forks

PORK accounts for at least 60 percent of all meat eaten in China, but its popularity exacts a heavy toll on the environment that has proven tricky to resolve until now.

A new study by Chinese and Australian researchers has identified a sustainable solution to mitigating excessive amounts of copper found in the 3.8 billion tons of pig manure turned into organic fertiliser to increase crop yields.

Though an essential nutrient in small doses, high concentrations of copper – added to pig feed to promote growth – is toxic to plants, soil, water and humans.

Researchers from China's Fujian Normal University and the University of South Australia have demonstrated that adding green-synthesised iron nanoparticles – G-nFe –

to pig manure neutralises the amount of bioavailable copper in piggery effluent, reducing the environmental risks.

China has regulations limiting the amount of copper allowed in pig feed, but the scale of livestock farming keeps increasing to feed a population of 1.4 billion people, making it difficult to control the huge amount of manure and sewage released into the environment.

Experiments undertaken by researchers showed that adding G-nFe to pig manure compost reduced exchangeable copper by 66.8 percent, carbonate-bound copper by 47.5 percent and iron-manganese oxide-bound copper by 15.4 percent.

UniSA environmental chemist Associate Professor Gary Owens, who was part of the study, said:

“This process was able to convert free copper into a less bioavailable form, reducing the potential for uptake by plants.”

Residual copper levels initially increased by a third in the first five days before declining by over 60.9 percent over the full composting period.

The study findings have recently been published in the journal *Science of the Total Environment*.

China processes approximately 628 million pigs annually, making it the world's largest pork producer.

Researchers said nearly half of the 3.8 billion tons of the resulting pig manure was inadequately treated and the heavy metal and organic pollutants were causing widespread environmental contamination.

While pig manure has traditionally been

valued as an inexpensive organic fertiliser for Chinese farmers, it is increasingly posing a serious problem due to the heavy metal contamination, resulting in a challenge for both government and researchers seeking economically viable solutions.

Green synthesised iron nanoparticles have been widely used to remediate water and soil contamination due to its cost-effectiveness, low toxicity and strong absorption rates.

However, this is the first study to explore its use in organic compost to remediate heavy metal pollution.

“This research presents a significant step forward in addressing heavy metal contamination in agricultural waste,” Assoc Prof Owens said.

“By using green-syn-

thesised iron nanoparticles, we can not only improve the safety of composted pig manure but also contribute to more sustainable farming practices.”

The researchers plan to test G-nFe's efficiency in larger composting systems using fresh pig manure, hoping to encourage stakeholders in the livestock and composting sectors to adopt the process.

University of South Australia



Pig manure is increasingly posing a serious problem for Chinese farmers due to the heavy metal contamination. Photo: Mark Stebnicki

New appointment at Australian Pork Limited

RECENTLY promoted, Tim Morley-Sattler has joined the Australian Pork Limited Research, Innovation and Extension team as Research and Innovation Program Manager - Environment and Sustainability.

Tim studied animal science at Charles Sturt University in Wagga

Wagga, and has worked across the dairy, beef, feedlot and pork industries where he held roles in production, livestock advisory and sales.

In his most recent role as the APL Extension Officer - Sustainability, Tim identified opportunities for research and innovation, effectively managed projects and delivered practical out-

comes for producers.

Tim's positive and engaging attitude and his commitment to conducting impactful research, innovation and extension will continue helping our industry produce environmentally sustainable pork.

Contact Tim regarding environment and sustainability research and innovation at tim.

morley-sattler@australianpork.com.au

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Inaugural chair of Pork SA in 2013, Peter was awarded life membership in 2015.

Vale pig industry icon

THE South Australian pig industry lost a great friend, advocate and communicator with the recent passing of retired Long Plains pig producer Peter Brechin.

For decades, Peter was often the public face of the industry, using his seemingly limitless knowledge of the national pork sector and his ability to confidently communicate to politicians, regulators and others sitting out-

side farm gates.

Educated at Pulteney Grammar School, he then spent 1960-62 at Roseworthy Agricultural College, where his natural talents for organising others were shown early with his election to the student representative council in his second year and vice presidency in his third.

College records show that Peter "arrived at Roseworthy Agricultural College with a great burst of enthu-

siasm and immediately showed his undoubted abilities, coming fifth in exams and earning himself a place in both the A-grade football and cricket teams."

To show his versatility, in his second year he was selected in the inter-collegian tennis team to play against Gatton College, maintained his place in the A-grade football side and played cricket for both the Para Districts and Roseworthy College sides, gaining both the Districts and College bowling trophy.

His early association with the pig industry began with a part-time role, employed by selling agents at the Gepps Cross livestock market to draft and pen pigs on sale days.

Store pigs and the occasional sow would end up back at the Brechin property and were run outdoors, until Peter bought land on the other side of Port Wakefield Rd and was able to build new sheds to expand his operation.

His piggery was eventually expanded to 300 sows and ably managed by his son Jock and daughter Alison.

This enabled him to spend time on commitments to the wider industry, requiring him to spend significant amounts of time off-farm attending state and national meetings, conferences and events.

In the late 1980s, the South Australian piggeries owned by the Adelaide Steamship Company were being wound up.

Led by Ron Lienert and Ian Parish, a group of like-minded pork sector people came together and purchased the piggery at Shear-Oak Log as a joint venture.

Peter was an inaugural investor, again showing his commitment and faith in our industry.

A few years later, he was also an investor in a similar investment at Wasleys.

Together, this core group of pork advocates helped to main-

continued P11



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Vale pig industry icon

from P10
tain, develop and ultimately grow the SA pork industry, with Peter always being a strong voice around the board table.

Peter also spent 35-plus years as a rural journalist, employed by the ABC rural department.

During those years, pig producers statewide valued his great observational reports explaining price trends at the end of the weekly pig sales, initially at Gepps Cross then later at Dublin.

Peter was chair of the Pork Council of Australia at a time when negotiations around the importation of Canadian pork were top of mind for industry and government.

He used his considerable media networks and expertise to ensure producers' concerns were well communicated under his position of chair.

He was always at the forefront of pig industry affairs.

He voluntarily committed significant time and effort supporting sector development, making South Australia an active contributor to

industry innovation nationally.

With the closure of the Northfield Pig Research Unit in the early 1990s, Peter was instrumental in lobbying government to reinvest in new facilities at Roseworthy Campus, his alma mater.

For that joint venture with the Adelaide University, the South Australian Research and Development Institute and the poultry industry, he served on the Pig and Poultry Production Institute Board for eight years.

Following the death of his friend and business partner Ron Lienert, Peter was a member of the sector sub-committee responsible for the creation and management of the Ronald J Lienert Memorial Scholarship.

Over many years, this scholarship provided the catalyst for Roseworthy graduates to successfully enter pork industry careers in research and education.

As a result of the winding up of the SAFF Commercial Pig Committee and a review of government boards and commit-

tees in 2010, Peter was a motivator for the development of Pork SA as the industry's representative body.

He was elected as inaugural chair of Pork SA in 2013 and in 2015, he was awarded life membership.

This transition oversaw the sector moving from a swine compensation fund to an industry development body, while retaining access to the accumulated funding – a deft feat.

Peter was very interested in hearing how the younger generation were either operating their own piggeries or working elsewhere in the industry and was always available to share thoughtful advice when asked.

Phone calls with Peter invariably began with his expert analysis of what the Adelaide Crows' players needed to do differently to win more games and ended with his trademark "keep believing!"

Peter is survived by his wife Francie, daughter Alison, sons James and Jock and five grandchildren.

Graeme Pope and Andrew Pointon



Registration status for pork and poultry plants across the US was updated to show eligibility through to 2030. Photo: Karolina Grabowska

US pork and poultry exports to China extended

PORK and poultry facilities in the hundreds in the US have had their export licences to China extended in a last-minute update by Chinese customs, but approvals for beef exporters remain uncertain.

Export registrations for a myriad of US meat plants – granted under the 2020 Phase 1 trade deal – were set to expire on March 16, putting billions of dollars' worth of trade at risk.

The first sign of positive news emerged recently when China updated registrations for 71 US poultry operations that had previously lost their export agreements on February 19.

Then the registra-

tion status for pork and poultry plants across the US, including major producers such as Smithfield Packaged Meats, was updated to show eligibility through to 2030.

In a statement, the National Pork Producers Council confirmed that more than 300 US pork facilities "have been renewed to export to China for five years."

National Pork Producers Council chief executive officer Bryan Humphreys said: "US pork producers now have maintained access and increased certainty to export their products to the 1.4-billion-person Chinese market."

However, US beef exporters are still waiting for their licences to be renewed.

Joe Schuele from the US Meat Export Federation said they were hoping for similar news soon.

"We're pleased to see progress on the pork facilities and hoping for similar news on beef as soon as possible," Mr Schuele said.

Global Agritrends analyst Simon Quilty suggested that approvals for beef exports could be rolled out in stages.

"China is in control of its own destiny and it could well be a staggered approach to plants over the next three or four months," Mr Quilty said.

"I don't think anything is a given ... and China will choose at their own time and what suits them best to have certain plants come back in."

The US exported 170,000 tonnes of beef to China last year, and any disruption to that trade could create additional demand for Australian grain-fed beef in the Chinese market.

The US Department of Agriculture had previously raised concerns about export licences lapsing and a "lack of response" from Chinese customs.

The department has yet to comment on the latest round of extensions.

Australia's red meat sector is monitoring the situation, particularly as US president Donald Trump considers introducing tariffs on Australian beef and lamb exports on April 2.

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Organisation:.....

Address:.....

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Role in pork industry:

Payment of \$100 to be made to Pork Industry Fund Ltd.

BSB: 633000. Account No: 146282934. Ref: [Surname].

Complete, take a photo and email to andree.rowntree@ggmlawyers.com.au

Pork Industry Fund Limited seeks applications for membership

ESTABLISHED in 2001 for the benefit of Australian pig producers, the Pork Industry Fund Limited is seeking interest for those wishing to become members.

Background

The Pork Council of Australia Limited was established in 1992.

As part of its operations, it received funds from Australian pork producers to be applied for the benefit of producers, including for use in activities such as advocacy and government lobbying on behalf of the industry.

In 2001, with restructuring of pork industry representative bodies, the Pork Council of Australia Limited changed its name to the Pork Industry Fund Limited and adopted a deed of trust.

The fund has remained inactive for many years, the quantum and location of any monies has been difficult to ascertain, we are unaware of any current members eligible to elect a director.

Further, as time has

passed, any individual assuming the role of director is now deceased.

With assistance, we have been able to locate the funds and a range of documentation including the deed of trust and memorandum and articles of the company.

The quantum of funds is material and, as the Pork Industry Fund is a company limited by guarantee, the funds cannot be returned to members – of which there are currently none.

With this in mind, we would like to investigate ways to utilise these funds for the originally intended purpose, which is to benefit pig producers.

To progress this initiative, the following individuals have been self-appointed as directors of Pork Industry Fund Limited in the absence of any current members or directors following the recent deaths of Robyn Boundy and Peter Brechin:

- Ms Edwina Beveridge
- Mr Andrew Johnson
- Dr Andrew Pointon

- Ms Andree Rowntree
- Dr Robert van Barnveld
- Mr Robert Wearne – company secretary.

As directors, we have been successful in securing access to the company's bank accounts.

Consistent with the deed of trust, our intention is to now seek new members, hold an Annual General Meeting so a board can be duly appointed to act on behalf of members and then, through a process of member consultation, determine the best use and rules for management of the funds.

Providing the funds are used to benefit Australian pig producers, there are very few limits on how they can be applied – for example legal defence, advocacy, research, marketing, challenging activists and such.

Next steps

To progress matters, we are seeking applications from eligible individuals to become members of the Pork Industry Fund Limited.

Under the deed of trust, any 'Australian pig producer' is an eligible member and can be an individual or a company.

We are proposing an initial token membership fee of \$100.

Should you choose to become a member, we would then like to invite you to an informal meeting to be held around the planned Australia Pork Limited delegates' meeting in Adelaide on May 15, 2025.

We will convene the meeting in person and electronically as required.

The purpose of the meeting will be to assemble a register of members and discuss uses for and governance of the fund before scheduling a formal AGM, to be held after members have had time to consider options.

We look forward to receiving your application and progressing this initiative for the benefit of Australian pig producers.

Pork Industry Fund Limited

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AUSSIE Pumps is a keen promoter of the need for water security in regional Australia.

The pork industry is particularly sensitive about this, as water plays a huge part in both the cleaning process and, in some cases, crop production too.

On a regular basis, politicians compliment the amazing job farmers do and the huge impact they have on the economy.

The self-priming revolution

Aussie Pumps made a major commitment to the development of self-priming centrifugal pumps, particularly for wastewater applications.

Aussie Pumps chief engineer John Hales said, "It started out with 2" and 3" pumps."

"Some of them, used in smaller piggeries, do a marvellous job and

have been doing it for decade.

"One thing we noticed is that, though these pumps are super reliable, in the cast-iron configuration, over a period of time, they can deal with corrosive waste liquid issues.

"We've been working on this – our first step being to put heavy duty 316 stainless-steel impellers in those cast-iron semi-trash pumps, with a view to extending impeller life," Mr Hales said.

"Tungsten carbide mechanical seals are now also becoming standard in many models."

The stainless-steel breakthrough

In 2023, Aussie introduced 316 stainless-steel self-priming centrifugal pumps up to 3" in diameter.

These were driven by a demand from the

mining industry, where they are required to deal with exceptionally corrosive liquids in tough operating conditions.

The results were excellent, with drill rig operators fitting them to the rigs with hydraulic-drive motors.

That success pushed Aussie Pumps to build cast 316 SS self-priming open impeller pumps.

The priming tank is designed into Aussie's pumps, so there is no need for additional priming devices.

The pumps also feature top quality electric motors but can also be supplied in bare shaft configuration.

"From relatively small 2" 316 stainless-steel pumps, we've moved progressively into bigger 3" pumps, and 4" more recently," Mr Hales said.

"The Aussie 4" B4XR-
continued P13



Aussie Pumps new 4" 316 stainless-steel pump in hydraulic-drive configuration.

Aussie's 4" stainless-steel waste pump

from P12 A/X 15kW pump is virtually 100 percent 316 stainless steel.

"On that basis, the big body with its in-built water tank is one solid casting, while the impeller and motor shaft are also in stainless steel.

"The 316 SS components mean they will deal with solids in suspension, will handle corrosion and even minimise the effects of cavitation.

"It's a huge step forward in terms of liquid waste handling," he said.

"We've even been asked to supply diesel drive units, mainly in the mining industry – that's a significant indication of the acceptance of what was

previously considered to be a bridge too far in terms of cost.

"With volumes picking up, we're able to move the costs down, which means lower prices to the user."

The big pumps are all part of Aussie Pumps piggery package.

The high-pressure cleaners are also supplied in stainless-steel frames and bases, designed specifically for corrosive applications.

The company also produces a great range of drain cleaning equipment.

Called the Aussie Cobras, available in 3000, 4000 and 5000psi, the jetters are designed for clearing drains of up to 10" diameter.

Designed for clearing blocked drains in sub-

urban applications, they are now being employed by the mining industry and anywhere livestock waste has the potential to choke.

"Compared to the old eels, our Aussie Cobra and King Cobra machines will get the job done in a fraction of the time in a clean way," Mr Hales said.

Not only that, the jetter range all come with a washdown gun and hose kit.

That means the machine can double as a very capable high-pressure water blaster as well.

Further information on Aussie's piggery support package, including aeration equipment, is available from aussiepumps.com.au or call 02 8865 3500.

AMIC announces Tim Ryan as CEO

THE Australian Meat Industry Council recently announced the appointment of Tim Ryan as its new chief executive officer.

Tim joined AMIC in 2022 and has played a pivotal role in advocating on behalf of members.

With an extensive background in the red meat industry, he has been instrumental in addressing some of the most critical issues facing the meat industry across all sectors, including changes to animal welfare standards, advocating for retail member interests in competition inquiries, and pushing back on scope creep of dietary guidelines.

AMIC chair Tom Maguire said, "On be-

half of the board, we are proud to appoint Tim as CEO of AMIC."

"He brings a deep understanding of our industry and a clear vision for its future.

"His leadership will be instrumental as we continue to advocate for our members and strengthen the industry's position both locally and globally."

Tim's appointment follows an extensive recruitment process to identify a leader who could steer AMIC through an evolving regulatory landscape, changing consumer expectations, technological advancements and environmental considerations.

With AMIC representing meat processors, retailers, small-

goods manufacturers, wholesalers and exporters, Tim will focus on enhancing collaboration, strengthening advocacy efforts and delivering critical services that support members' long-term success.

Mr Maguire said, "Tim takes on this role

at a pivotal time for our industry."

"With mounting challenges and opportunities ahead, his leadership will ensure AMIC continues to deliver value for members, while securing a strong sustainable future for Australia's red meat industry."



AMIC recently announced Tim Ryan as its new chief executive officer.



TABLE 1. AusScan Early Harvest Report

Protein Moisture and Energy Values for Cereal Grains



Australasian Pork Research Institute Ltd APRIL

February 2025

Barley																											
Region*	Protein %				Moisture %				Pig Faecal DE MJ/Kg				Pig Ileal DE MJ/Kg				IDE/FDE Ratio			Broiler AME MJ/Kg				Broiler AME Index			
	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max
NSW1	9.6	0.62	8.0	10.7	11.0	0.42	9.9	12.0	13.2	0.10	13.1	13.5	10.5	0.13	10.3	10.8	0.79	0.79	0.80	11.9	0.15	11.5	12.1	68.4	1.6	63.7	71.2
QLD	10.2	1.80	5.4	13.3	11.4	0.85	9.6	14.0	12.6	0.41	12.1	14.7	10.3	0.60	9.0	12.6	0.81	0.74	0.86	12.0	0.55	11.2	14.6				
QLD1	11.2	1.16	8.7	12.5	11.5	0.87	10.2	13.9	12.6	0.07	12.4	12.6	10.6	0.28	10.1	10.9	0.84	0.82	0.86	12.0	0.39	11.2	12.6				
SA1	12.4	0.80	10.8	14.2	10.4	1.32	8.4	12.7	13.1	0.17	12.6	13.4	10.6	0.20	10.1	11.1	0.81	0.80	0.83	12.2	0.34	11.5	12.9	65.6	3.2	60.3	71.9
SA2	13.0	0.62	11.7	15.0	10.0	0.84	8.2	11.4	13.3	0.13	12.8	13.5	10.8	0.15	10.2	11.0	0.81	0.80	0.81	12.2	0.24	11.9	12.7	67.1	1.9	64.4	70.3
VIC	11.0	1.39	5.8	13.0	10.3	1.02	8.4	12.7	12.5	0.17	12.1	13.0	9.9	0.28	9.3	10.7	0.79	0.77	0.82	11.5	0.48	10.7	13.7				
VIC 1	9.8	0.86	8.3	11.4	10.2	0.83	8.4	11.4	12.6	0.35	12.0	13.6	11.2	1.46	10.0	14.7	0.89	0.83	1.08	11.7	0.39	11.1	12.4				
VIC 2	11.3	1.51	8.3	13.9	10.0	0.62	8.8	11.3	12.5	0.12	12.2	12.8	10.8	0.91	9.9	15.0	0.87	0.81	1.17	11.5	0.30	10.7	12.2				
VIC 3	10.6	1.07	8.7	12.4	9.9	0.95	8.3	11.7	12.5	0.28	12.2	13.7	10.6	0.63	9.8	12.4	0.85	0.80	0.91	11.4	0.55	10.4	12.8				
Sorghum																											
Region*	Protein %				Moisture %				Pig Faecal DE MJ/Kg				Pig Ileal DE MJ/Kg				IDE/FDE Ratio			Broiler AME MJ/Kg				Broiler AME Index			
	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max
QLD	9.4	1.19	7.4	14.1	12.8	1.03	10.8	17.0	14.5	0.24	13.7	15.0	11.9	0.67	10.2	13.9	0.82	0.75	0.93	14.6	0.33	13.2	15.0				
Triticale																											
Region*	Protein %				Moisture %				Pig Faecal DE MJ/Kg				Pig Ileal DE MJ/Kg				IDE/FDE Ratio			Broiler AME MJ/Kg				Broiler AME Index			
	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max
SA1	12.8	0.64	12.1	13.7	11.7	1.42	9.7	13.4	13.5	0.14	13.3	13.7	11.8	0.15	11.6	12.1	0.87	0.87	0.88	12.9	0.23	12.5	13.2	74.5	1.5	72.0	76.3
Wheat																											
Region*	Protein %				Moisture %				Pig Faecal DE MJ/Kg				Pig Ileal DE MJ/Kg				IDE/FDE Ratio			Broiler AME MJ/Kg				Broiler AME Index			
	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max
NSW1	12.7	0.62	9.4	13.9	11.3	0.28	10.8	11.9	14.0	0.14	13.2	14.2	12.1	0.26	10.5	12.4	0.87	0.79	0.87	12.8	0.21	11.9	13.3	76.8	2.1	66.9	80.9
QLD	12.8	1.64	7.8	20.1	11.5	1.07	8.8	16.7	13.8	0.25	12.2	14.9	11.9	0.39	10.2	13.2	0.86	0.83	0.89	13.0	0.50	11.3	15.4	78.0	3.9	63.2	83.4
QLD1	12.6	0.90	10.6	14.2	11.0	1.13	9.0	12.6	13.8	0.09	13.6	13.9	12.0	0.17	11.6	12.4	0.86	0.85	0.89	12.9	0.32	12.1	13.4	77.1	1.4	75.1	78.7
SA	12.4	0.85	10.7	14.2	10.8	0.73	9.9	12.2	13.8	0.05	13.7	13.9	11.9	0.14	11.6	12.1	0.86	0.85	0.87	12.8	0.22	12.4	13.1	77.8	0.9	76.3	79.7
SA1	12.4	1.25	9.2	16.6	10.9	1.07	8.2	12.8	13.9	0.08	13.5	14.1	12.3	0.18	11.6	12.7	0.88	0.85	0.90	13.2	0.26	12.8	13.9	75.3	1.8	71.4	79.6
SA2	12.9	1.77	10.0	17.1	11.0	1.31	8.0	13.3	13.9	0.06	13.8	14.0	12.3	0.14	12.0	12.6	0.89	0.87	0.90	13.1	0.32	12.3	13.9	75.1	1.9	71.0	79.8
VIC	12.1	1.32	9.3	16.6	10.2	0.83	7.9	12.1	13.7	0.05	13.6	13.9	11.8	0.15	11.0	12.2	0.86	0.81	0.88	12.6	0.24	12.0	14.0	76.9	0.8	75.7	78.1
VIC 1	13.0	1.23	9.6	16.7	10.4	0.98	8.8	12.4	13.7	0.07	13.4	13.8	12.3	0.18	11.8	12.8	0.90	0.88	0.93	12.8	0.28	12.1	13.9	77.5	1.5	70.8	84.5
VIC 2	12.4	1.38	9.4	15.3	10.6	1.00	8.3	13.7	13.8	0.09	13.6	14.7	12.0	0.19	11.5	12.4	0.87	0.84	0.85	12.8	0.38	12.1	15.1				
VIC 3	11.7	1.06	9.6	14.7	10.2	0.92	8.2	13.1	13.8	0.08	13.0	14.7	12.0	0.20	10.9	12.6	0.87	0.83	0.86	12.6	0.31	11.7	15.0	77.3	1.3	72.8	83.8

* Each row represents a Feed Mill in the Region, for example QLD and QLD1 represent different feed mill companies within the state.

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