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NATIONAL Poultry

NEWSPAPER

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Do you want egg production in Australia to cease?

ALL production systems, conventional cage, aviary, pre-enriched, barn and free range are at risk.

Animal activists and vegans are working hard to take out one egg production system at a time and who is working for your business to help stop this?

Egg Farmers of Australia are your advocacy organisation for the egg industry.

Egg Farmers of Australia is a small group of dedicated people who are working hard to ensure egg production continues and consumers have choice.

What do Egg Farmers of Australia do?

- Speak with members about issues impacting their business;
- Engage with advisers and ministers in relation to processes such as the standards and guidelines;
- Prepare information from research for submissions and attendance at government hearings;
- Submissions to government hearings cover a wide range of issues including conventional cages, animal welfare and biosecurity issues;
- Involvement in food authority meetings providing the latest bio-

security issues;

- Assisting with Salmonella Enteritidis work across states;
- Provide members a monthly newsletter; and
- The Egg Farmers of Australia board has four face-to-face meetings a year and meet monthly by teleconference all other months.

Please make contact to become a member to ensure the integrity of egg production remains.

If you have not already joined Egg Farmers of Australia, please contact Melinda Hashimoto on 0434 999 600 for a membership form to be emailed to you.

The cost of membership is \$55 inclusive of GST and a voluntary levy of 4.5 cents per laying hen based on your flock.



Poultry Hub Australia out and about in August

THIS past month I had the pleasure of meeting and chatting all things poultry with the new federal agriculture minister, the honourable Bridget McKenzie.

It was a great opportunity to chat about the challenges we face and how PHA is bridging the gap between industry and research.

Poultry Hub Australia is pleased to announce that we have awarded a total of \$181,487 to four projects, following our open call for research proposals.



by **TAMSYN CROWLEY**
Director



We would like to thank all those who submitted a project and congratulate those who have been successful and encourage others to keep up the great ideas.

The four successful projects span a number of important areas including the importance of sampling and sampling methodology in poultry production, precision feeding, novel feed additives and detection of Spotty Liver Disease in chickens.

We look forward to bringing you more information over the coming months on these projects.

During the project review process, it was clear to all members of our industry committee that researchers in our industry are full of great ideas and have some novel strategies to solve some of the big issues that the Australian Poultry Industry currently faces.

In many cases researchers proposed a great solution but failed to demonstrate a direct industry link or industry partner and hence were not eligible for funding from PHA.

PHA can facilitate the

types of interactions that lead to research collaboration.

We would encourage all researchers to make use of our Researcher-In-Industry program, designed to get researchers and industry talking.

This program funds researchers to spend time on farm or in industry to help start a dialogue with the likely outcome being a project that is perfectly suited to be funded through PHA's open funding call.

If you are interested in this program, please contact us at poultryhub@une.edu.au

The benefits of spending time in industry can be witnessed through University of New England's PhD candidate Matt Hilliar who took three months off to complete an industry-based internship with Ridley AgriProducts.

The internship involved Matt developing his skills as an animal nutritionist whilst working on a project within Ridley.

Matt's expertise in amino acid nutrition was drawn upon to develop a database for Ridley to use in feed formulations across multiple species.

Matt's project was a joint effort with Dr. Emma Bradbury of Ridley and Dr. Natalie

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A/Prof Tamsyn Crowley (director PHA), Hon Bridget McKenzie and Hon Barnaby Joyce.



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Poultry Industry Calendar of Events

2019

SEP 10-11 – Ideas Exchange 2019, Sydney NSW www.poultryhub.org/ideas-exchange-conference-2019

SEP 16-20 –World Veterinary Poultry Association Congress, Bangkok, Thailand www.wvpac2019.com

SEP 17 – Poultry Meat Conference Northamptonshire, UK www.poultryconference.com/PMC/Default.aspx

SEP 20 – Judging – Royal Melbourne Poultry Show, The Grand Pavilion, Melbourne, VIC www.rasv.com.au/royal-melbourne-poultry-show

OCT 23-25 – European Symposium on Poultry Genetics, Prague, Czech Republic www.espg2019.org

NOV 3-4 – Egg and Poultry Industry Conference, Celtic Manor, Usk, Wales www.epiconference.co.uk

NOV 5-7 – Poultry Tech Summit, Atlanta, US www.wattglobalmedia.com/poultrytechsummit

2020

MAY 17-19 – PIX/AMC, Gold Coast www.pixamc.com.au

How to supply event details: Send all details to National Poultry Newspaper, PO Box 387, Cleveland, Qld 4163, call 07 3286 1833 fax: 07 3821 2637, email: design@poultrynews.com.au

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Bipartisan solution needed for animal activists

FOLLOWING months of coordinated activist attacks on Queensland's intensive animal farmers, the state government amended regulations under the Biosecurity Act to allow the Queensland Police Service and biosecurity officers to issue on the spot fines of \$652.75 to people who put on-farm biosecurity at risk.

These cumulative fines came into effect on April 26, 2019 and at the time, QFF commented this was a step in the right direction but it remained to be seen whether this would prove to be an effective deterrent to the more extreme and radical actions occurring.

While it has dampened the actions of some activists, it has not been enough to deter the more committed activists.

On May 1, 2019, the LNP Opposition introduced a private members bill that proposes three new offences: aggravated trespass with a maximum penalty of \$13,055 fine or three-years imprisonment; and serious criminal trespass and organised trespass which would both attract a maximum penalty \$391,650 or 10-years imprisonment.

The bill is currently being considered by the relevant Parliamentary committee.

On August 22, 2019, the state government introduced new legislation that proposes greater penalties for those trespassing on farmland.

The Agriculture and Other Legislation Amendment Bill amends 17 Acts and four Regulations, including increasing the maximum penalty for unlawfully entering farmland to a fine of \$2,669 or one year in jail – standardising these penalties



by **TRAVISTOBIN**
CEO

with those for general trespass.

The bill also broadens the range of land uses covered by the offence to include more purposes related to agriculture, agricultural food production and animal keeping.

Other amendments have the effect of increasing the maximum penalty for non-compliance with a biosecurity management plan to \$66,725 or more.

Besides being a personal intrusion for most farmers (with their business also their home), biosecurity risks set agriculture apart from other legitimate businesses when it comes to trespass.

For example, to enter onto a meat chicken farm, visitors must sign a declaration that they have not had contact with any other poultry animals, poultry biologicals or pigs within

a minimum 24-hour period.

Visitors are also required to walk through biosecurity foot baths and sanitise hands, vehicles, tools and equipment before entering sheds and can only enter poultry sites in a strict supply chain order.

Animal activists show no understanding or respect for strict biosecurity protocols such as these that protect farming businesses, industries and food security, even though everyone has a general biosecurity obligation.

The current offence of unlawfully entering farming land and property does not meet the expectations of farmers and the community in punishing and preventing future offences of trespass on farms and does not reflect the potential risk to farm-

ing businesses.

The law is the product of the social conditions at the time it is made, it is not static and should change to respond to the current social and political values of a community.

With both major parties recognising that the current laws on this issue are no longer fit-for-purpose and putting forward various ideas to curb the actions of a minority element of the community, the Parliament must now do its job and deliver the right laws for today in the interests of realising a properly functioning society.

A bipartisan approach to getting the right balance of ideas would also realise the greatest acceptance from the community for the changes made.



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Biosecurity New Zealand and industry managing suspected chicken virus

BIOSECURITY New Zealand is responding to a possible detection of a poultry virus, Infectious Bursal Disease Virus type 1 in a layer egg farm in Otago.

Biosecurity New Zealand response manager David Yard, said, "No birds at the Mainland Poultry farm in Waikouaiti have disease symptoms and the farm itself is under voluntary biosecurity controls as a precautionary measure."

Preliminary test results indicate the virus is highly likely to be present on the Mainland Poultry property, but further testing overseas is required to confirm this.

The results are expected around mid-September.

Departmental chief scientist Dr John Roche says the virus can affect the immune system of young chickens but it poses no risk to human health or



The UWA institute of agriculture releases annual research report 2018

THE University of Western Australia's Institute of Agriculture has released its Annual Research Report 2018.

It is the twelfth annual research report since the Institute was re-established in 2007 and provides an overview of UWA's agricultural research, development and training in a regional, national and international context.

Institute Director Hackett Professor Kadambot Siddique said the role of The UWA Institute of Agriculture was to enhance UWA's contribution to agriculture and related areas, with a vision to provide research-based



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the health of other animals.

"There is no food safety risk with this virus and people should have no concern eating chicken meat or eggs. There will be no impact on domestic egg and chicken meat supply," said Dr Roche.

Mr Yard said that while Biosecurity New Zealand was waiting for final confirmation from the overseas laboratory, it would stop issuing certificates for the export of chicken products to countries that require a guarantee that we are IBDV type 1 free.

That involves the trade in poultry meat and poultry products to four countries, with Australia being the largest importer of New Zealand chicken meat.

Biosecurity New Zealand is now working with the egg and poultry industries to understand, if confirmed as positive, the

scale of the situation and what control or eradication measures are available.

Mr Yard says while this work is underway, Biosecurity New Zealand is reviewing operational measures at the farm to assess, if confirmed present, the risk of spread to other sites.

Testing of other South Island layer and meat chicken farms is underway.

Biosecurity New Zealand and industry will work together to consider options to manage the situation, balancing the impacts of the disease if confirmed, against the costs and benefits of any control measures.

There are two different types of IBDV – Types 1 and 2.

Type 2 is already in New Zealand and causes no significant health issues in the national flock and is of no trade concern.

The current suspect result is for Type 1.

IBDV type 1 was discovered in New Zealand in 1993.

An industry-led programme to eradicate has meant New Zealand has been able to claim absence of the disease.

Most other countries in the world have this virus and successfully manage it within the industry.

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Women in Poultry: Jonna May Hernandez



JONNA May Hernandez is the founder of the Benigna Poultry Farm in the Philippines.

They started operating in 2017 and scaled the business in 2018 with the help of the Department of Science and Technology.

Jonna oversees the day-to-day operations, from production to people management to sales.

What inspired you to move into poultry?

My previous jobs and my undergraduate degree are not at all related to animal health or animal husbandry.

While I was working on my MBA, I was inspired to become an entrepreneur.

When doing research on business ideas, I learnt that in the Philippines in general, the population and consequently egg consumption are consistently increasing.

However, the supply does not match the demand.

In our region specifically, access to fresh, high-quality, affordable eggs is not easy.

This information gave me the inspiration to start a poultry business.

After starting, I also realised that I was contributing positively to the local economy, and this has inspired me to forge ahead.

What are the main challenges that you faced when you were on the farm?

The main challenges I have faced are the availability of workers, maintaining animal health and maintaining hygiene and quality of production.

The most critical part in growing chickens is the commitment of the workers to their jobs.

The performance of the chickens' production and the cleanliness of the work areas are greatly dependent on the management of the workers.

In tropical countries like ours, conventional types of poultry houses are most cost effective and hence the workers' involvement in the day-to-day operations plays a significant role.

Describe a typical day in your current role

My day starts with reconciling sales and inventory numbers.

I visit the farm to check on the operations and talk to the staff.

If there are any concerns that need to be addressed, I attend to those.

We have a regular schedule for the delivery of supplies, so I only need to monitor that aspect of the business.

On the sales side we have regular buyers and I meet them every few days to understand the demand.

I monitor the 'hen day production' and projected sales versus actual sales.

Since I have been working on this for a few years now and the operations are set up and streamlined, the nature of work is more monitoring operations and ensuring sales.

How would you reorganise the legislative minefield, if you could?

The process of setting up a business and the permits needed could be streamlined to make it easier for someone starting a poultry farm with no prior experience.

The programmes, continuous education, industry knowledge, medicines and vaccines are either limited or unavailable.

In other countries, seminars and conferences are being initiated and sponsored by the government.

In the Philippines however, these are usually be-

ing conducted by private companies and can only be attended by invitation.

I would also ensure that all poultry farms secure permits from the Department of Science and Technology.

Have you encountered any challenges as a woman in poultry farming?

Yes, definitely!

I have encountered a variety of challenges. As a woman who had worked in the corporate sector, I had no experience or any knowledge about civil works and construction.

This led to many challenges when planning and constructing the poultry houses.

It is not common for a woman to run a business in the area.

Hence, it was difficult to get the engineers and other staff to listen to my ideas.

From a logistics perspective, given I am the only person handling the operations, I had to buy feeds, construction materials, rice hulls and so on, on my own.

Being an entrepreneur, it is important to be resourceful, so I drive the pick-up truck myself to get the supplies.

Given the location of the farm outside the city, I end up spending additional time and effort on these duties.

Also, with the physical nature of many of the

continued P5



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Concern over Coles too low prices for cage-free eggs

COLES' recent move in Western Australia to axe caged egg sales and sell home-brand barn eggs for \$3 a dozen is very concerning as it's hard to see how they

could be produced at that price, according to WA agriculture minister Alannah MacTier-nan.

"Decisions by retailers as to what eggs they sell,

such as the decision by Coles to bring forward its phase-out of caged eggs from all stores in Western Australia, presumably reflects their assessment of consumer sentiment," Ms MacTier-nan said.

"It is difficult to see how it is possible for a producer to provide cage-free eggs at that price.

"I will add that one thing that concerned me about the decision by Coles is the marketing of \$3 cage-free eggs," she said.

With a retail price of \$3 a dozen, Coles' cage-free barn eggs in WA stores

are notably cheaper than both caged and cage-free eggs being sold by in other states.

Despite the removal of caged eggs in Western Australian stores Coles has not removed caged eggs from the shelves in any other state.

However, Coles has stated caged eggs would be phased out by 2023.

Caged eggs, which are cheaper to produce than barn eggs, cost at least \$3.35 a dozen in Coles' stores in other states.

Nationals WA agriculture spokesman Colin de Grussa recently wrote to all major supermarkets expressing the concerns of egg producers' ability to negotiate on price.

The correspondence requested information about how supermarkets determined prices, including what consideration there are for external factors, such as higher feed costs.

Egg producers faced similar circumstances to the dairy industry in that they were being crippled by high feed prices while being paid poorly by supermarkets, said Mr de Grussa.

Considering the current situation, Ms MacTier-nan has offered the Commercial Egg Producers Association of WA funding for an independent assessment into the cost of producing cage-free eggs. 🐣



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Women in Poultry: Jonna May Hernandez

from P4

jobs in the farm, I find it can be more difficult as a woman.

What advice would you give to women looking to start a career in poultry?

The poultry business is not an easy business for women, especially since a lot of the work is physical and labour intensive.

However, women are naturally patient, which makes us most effective in getting down to the nitty gritty of the business.

Women's instincts also play an important role in the poultry industry.

Women are naturally caring and compassionate which is a great advantage in animal husbandry.

Women should not be demotivated by the challenges in this industry but must focus on what can be done and what should be done.

Our physical attributes should not be a hindrance, nor should they be the basis of our abilities to succeed.

What would be your dream role in poultry?

Being the game changer in the industry is my dream role in poultry.

There is still room to make improvements in the poultry industry in the Philippines.

What outstanding challenge facing the poultry industry would you most like to solve?

In the Philippines' market, pricing and seasonal demand are the most challenging in the poultry industry.

Without regulated farm-gate pricing, small-to-medium enterprise growers are critically affected because of economies of scale.

Moreover, the Philippines' agriculture sector is not technologically advanced in terms of farm management.

For poultry farm growers, it is very challenging to remotely monitor the entire operation of the farm, and this is mostly due to a lack of technical know-how.

Therefore, I think creating a software application designed specifically for poultry management would be

most valuable but, most importantly, it must be affordable.

How has your relationship with the poultry sector evolved?

The poultry sector in our area or in the Philippines in general is not strong enough compared to neighbouring countries because the government is more focused on crop-related products.

How do you incorporate sustainable (ethical, environmental, economic) best practices into your day-to-day routine?

Though not yet completely implemented, we try to follow an integrated farming approach.

One example is by using the manure waste as an organic fertiliser for our banana plants on the farm.

We also treat the waste so that it does not pollute the environment.

Additionally, we are committed to treating our poultry well and working to maintain their health by keeping conditions optimum for

their well-being.

How do you feel about on-farm technology, either current or yet to be developed?

On-farm technology would be a great solution for efficient farming.

The only concern for automation is the cost involved for procuring this technology.

In first-world countries, on-farm technology or developing that technology is very important and it is also widely used due to high labour cost and weather situations.

That is not the case here in the Philippines, and I would definitely welcome such solutions.

What are the most memorable experiences you have had during your career in poultry?

The most memorable experience was when the Department of Environmental and Natural Resources chose our farm to be awarded as their Setup Integrator by the DENR's secretary and the Philippine president during National Science and Technology Week. 🐣



The Heart Foundation recommends people with Type 2 Diabetes or high blood cholesterol should limit their egg consumption to seven eggs per week.

Heart Foundation shells out advice about eggs

BREAKING news in August, the Heart Foundation had shelled out its recommended adjusted weekly consumption of eggs, was most likely greeted with glee by egg producers.

However, the news did come with something of a caveat, so as always, the fine print and not the headline needs to be noted.

Essentially, the Heart Foundation withdrew any limit on weekly egg consumption, but did note that people with Type 2 Diabetes or high blood cholesterol should limit their egg consumption to seven eggs per week.

Based on current evidence, the relationship between eggs and heart health is neutral, meaning that they don't increase or decrease the risk of heart disease in most people.

Eggs can contribute to healthy meals and are a healthy snack option compared to discretionary foods.

Eggs contain good quality protein and are a source of healthy fats, including omega-3 fats and can be part of a heart healthy eating pattern that includes other healthy protein sources such as fish, seafood, legumes, nuts and seeds and smaller amounts of poultry.

According to the Heart Foundation, cholesterol in eggs has almost no effect on blood cholesterol levels, which are more



Cant Comment
by
BRENDON CANT

influenced by saturated and trans fats, meaning it's really what you eat with your eggs that matters most.

Tips for eating eggs

- The healthiest ways to cook eggs is to boil, poach or scramble them.

- Make a three-egg omelette with capsicum, spinach and mushroom and eat on grainy bread.

- Try incorporating one to two serves of vegetables with your eggs.

- Eggs make great lunchbox fillers for children and are very portable when hard boiled.

- Add a chopped up hardboiled egg to the top of a salad.

While the Heart Foundation news is pretty good news for egg and milk producers, it's not

so good for beef producers, with the Foundation saying many Australians need to rethink how much red meat they're eating, as evidence indicates it increases risks for heart disease and stroke and may lead to weight gain.

Heart Foundation Chief Medical Advisor, cardiologist Professor Garry Jennings, said, "We have introduced a limit of less than 350 grams a week for unprocessed beef, lamb, pork and veal.

That's around one to three lean red-meat meals a week, like a Sunday roast and a beef stir-fry.

"We suggest people get most of their heart-healthy protein from plant sources such as beans, lentils (legumes) and tofu, plus fish and seafood, with a smaller amount from eggs and lean poultry. Heart-healthy eating is more about the combination of foods, eaten regularly over time.

"We have removed our restriction for healthy Australians on eating full-fat milk, cheese and yogurt. While the evidence was mixed, this type of dairy was found to have a neutral effect, in that it doesn't increase or decrease your risks for heart disease or stroke.

"Given this, we believe there is not enough evidence to support a restriction on full-fat milk, yogurt and cheese for a healthy person, as they also provide healthy nutrients like calcium."

But Professor Jennings

warned that limits apply to the new advice around dairy and eggs.

"For people who suffer high cholesterol or heart disease, we recommend unflavoured reduced-fat milk, yogurt and cheese and eating less than seven eggs per week.

"Butter, cream, ice-cream and dairy-based desserts are not recommended as heart-healthy, as they contain higher fat and sugar levels and less protein. Evidence found the dairy fat in milk, cheese and yogurt does not raise bad LDL cholesterol levels as much as butter or other dairy products.

"Type 2 Diabetes, along with high cholesterol and high blood pressure, are risks for heart disease and stroke that we can all take steps to avoid through diet and lifestyle changes," Professor Jennings said.

The Heart Foundation's updated advice on meat, dairy and eggs is based on a substantial review of current evidence, with the Foundation commissioning the Sax Institute to investigate the scientific evidence regarding unprocessed red meat, poultry and heart health.

Heart Foundation policy and nutrition staff reviewed scientific evidence into dairy and eggs and the Foundation convened an advisory group of cardiology and nutrition experts to discuss this evidence and advise on a final position.

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Poultry Hub Australia out and about in August

from P1

Morgan of the University of New England.

"It was great to apply my skills and see 'real world' applications of the knowledge I've gained during the completion of my PhD," Matt Hilliar said.

The project developed regression equations for the amino acid content of Australian feedstuffs.

The key findings of

the project resulted in refined diet formulation accuracy and further highlighted the need to use Australian specific data.

The project also supported the future application of reduced-protein diets, Matt's PhD topic. "I'm proud of the results we have presented Ridley and look forward to seeing the outcomes of the project in industry."

"I'm very grateful for

the support Ridley has given me and I have gained some much-needed industry experience. It was great to be involved in the 'day to day' and see what research is truly needed to help industry improve its efficiency."

As a result of the internship, Matt has accepted an internship with Turosi, supported by PHA, beginning in October after he submits his PhD thesis.



Dr. Emma Bradbury (Ridley), Mr. Matt Hilliar (UNE) and Dr. Natalie Morgan (UNE).

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New technology to detect chicken welfare

UNIVERSITY of Southern Queensland senior research fellow, Dr Cheryl McCarthy, a mechatronic engineer, is currently researching a new way to detect chicken welfare using machine vision.

Machine vision uses camera technology with

artificial intelligence akin to that of face recognition.

Dr McCarthy's system deploys continual on-board image analysis and provides minute-by-minute alerts which significantly differs from the typically human inspection rate of three times per day,

which also relies on the human eye.

Dr McCarthy said the cameras observe the daily behavioural patterns of the chickens, picking up change's indicative of underlying health issues.

"The camera technology's artificial intelligence spots subtle patterns in behaviours – are the chickens sitting more often, grouping together, or not eating as much?"

"This data can be used in the diagnosis of temperature stress or foot conditions like footpad dermatitis," he said.

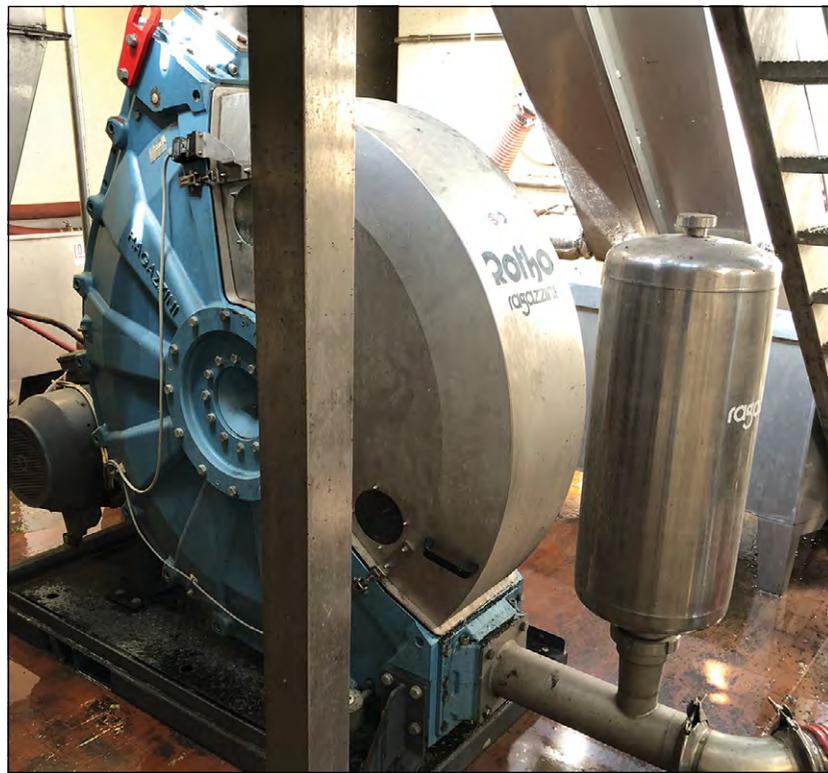
The software has wide-reaching possibilities, with investigations also underway to apply it to chicken weight estimation and in a free-range

setting using drone technology.

"The benefits include increased productivity via early interventions and better animal welfare, and as the cameras are low-cost, the technology is well-suited to on-farm use," Dr McCarthy said.

The research is the first of its kind in Australia and has been the subject of a two year project funded by AgriFutures Chicken Meat Program.

It follows Dr McCarthy's previous research in remote monitoring using smart cameras to perform tasks like cattle condition scoring, weed spot spraying and crop growth monitoring. 🐔



Raggazzini Pump hard at work.

Agriculture industry needs more engagement with community

CHANGING how the agriculture sector engages with the community will do more for the industry than changing laws, according to Australian Eggs managing director Rowan McMonnies.

Mr McMonnies, who recently spoke at a Farm Writers' Association of NSW event in Sydney, said even though policy change for trespass laws was important for the agricultural sector, it wasn't going to solve the problem of false and

misleading information about the industry.

Mr McMonnies said it was inappropriate that masses of people were being encouraged to invade farms.

"It shouldn't happen. I find something very scary about it, they are at the gate, they have a physical presence on farm. I know farmers are affected by this," he said.

Although the introduction of federal and state laws, after a spate of activism on farms and ab-

attoirs, were important, they're only focused on trespass.

"These trespass laws aren't going to do anything to solve the broader issue in relation to campaigns and campaign organisations pushing false and misleading information against the agriculture sector," he said.

Mr McMonnies said Australian Eggs had changed the way it communicated, from defending to now thinking about it from

the audience's point of view.

"We need to drive a greater level of transparency across the sector, where we are prepared to be open, own our impacts and to demonstrate we don't have anything to hide."

"I see this as an enormous challenge for our industry and this sector, I see it as a minimum as a decadal process to get our heads around and get momentum," McMonnies said. 🐔

Effective Poultry Waste Sludge Pump

MOVING some animal waste sludge can be a difficult proposition for pumps.

It can be thick and corrosive and is definitely only a job for the right pump, according to industrial pump specialists, Hydro Innovations.

As the waste liquid gets thicker, it becomes much less efficient to use a centrifugal pump, but ideal for the right peristaltic pump says Garry Grant of Hydro Innovations.

"Our Ragazzini hose pumps can move thick poultry slurry comfortably when sized correctly, and with the right tubular element" he said.

The pumps use a roller on bearing method to 'squeeze' the tubular element, creating a vacuum on the suction side, enabling pumps to operate on high suction lifts.

The pumps are also capable of delivering pressures up to 15 bar, enabling them to 'push' the sludge material over high hills or through long pipe lines.

These pumps are fitted with a leak detection system that will stop the pump and send an alarm if the hose wears.

And it is not a messy or complicated hose change-over because the pump casing is not full of ex-

pensive lubricant.

The pumps have no seals or valves, can run dry without damage, and there is no contact between the pumped media and moving parts.

Ragazzini pumps are set up to run slowly to promote longer hose life and they are able to pump good size solids.

Flows from just a few litres per minute up to 180m³/hour can be delivered, depending on pump model.

More information on these pumps can be obtained from info@HydroInnovations.com.au 🐔



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A new study suggests eating poultry may help to reduce the risk of breast cancer

A new study, released in the International Journal of Cancer, suggests that substituting lean poultry for red meat could decrease your risk of breast cancer.

International researchers analysed the data of around 42,000 women from the USA and Puerto Rico and then followed their results for almost eight years to determine if an association between meat consumption and the risk of breast cancer exists.

During the follow-up, 1536 invasive breast cancers were diagnosed.

The findings revealed that women who ate the highest amount of red meat had a 23 percent higher risk than those who ate the lowest.

Red meat for the purpose of the study included beef, veal, pork, lamb and game meat.

On the flip side, they observed females who ate the most poultry had a 15 percent lower risk of invasive breast cancer than those eating the least.

These women consumed lean chicken, turkey, Cornish hens, duck, goose, quail and pheasant.

Eating more organic food may reduce your risk of cancer

A new study on French adults shows that people who eat a lot of organic food significantly reduced their risk of two types of cancer.

We look at the findings and ask, should you be increasing the amount of organic food you eat?

The effect of poultry and red meat consumption on breast cancer risk demonstrated in the study was particularly strong for post-

menopausal invasive breast cancer.

There was no link shown between the way the meat was cooked and breast cancer risk.

National Institute of Environmental Health Sciences in the USA, Dr Dale P. Sandler said, "While the mechanism through which poultry consumption decreases breast cancer risk is not clear, our study does provide evidence that substituting poultry for red meat may be a simple change that can help reduce the incidence of breast cancer."

Accredited practising dietitian at OnCore Nutrition, Lauren Atkins, specialises in oncology dietetics and is connected to Breast Cancer Network Australia.

She tells SBS that although the research does not demonstrate cause and effect and only shows an association, it is of value.

"This study is interesting because it links red meat with a whole different tumour stream. This means we are learning more and more about how our food choices impact our cancer risk," Atkins said.

Atkins explains that the food swap mentioned in the research could benefit many women, depending on the amount of red meat they consume on a regular basis.

"It suggests that reducing red meat intake is beneficial and increasing lean poultry is beneficial. If you combine the two and swap out your red meat for poultry, that is possibly a very practical piece of advice on how to reduce breast cancer risk," she said.

Genetic risk and your diet
This study looked at

women enrolled in the Sister Study, a cohort study evaluating environmental and genetic risk factors for breast cancer.

Eligible participants were women aged 35 to 74-years-old who had no previous diagnosis of breast cancer and were sisters or half-sisters of women diagnosed with breast cancer.

The researchers acknowledged the women studied may have a higher risk of breast cancer due to their genetics.

What to eat to prevent cancer

The World Cancer Research Fund has issued diet and lifestyle recommendations on what we should all be doing to prevent cancer.

According to Breast Cancer Network Australia, five percent of breast cancers occur in women who have inherited a single gene abnormality from their mother or father, putting them at greater risk of developing breast cancer.

Abnormalities in the well-known genes, BRCA1 or BRCA2, occur in about one in 400 Australian women.

These genes are more common in some ethnic groups.

They occur in about one in every 40 people with Ashkenazi Jewish heritage.

"The fact is if you have a higher risk of breast cancer due to genetics, you can't lower your risk by changing your genetics or cultural heritage. But you may be able to lower your risk by changing the way you eat and move," Atkins said.

Carbon-neutral beef: Is it guilt-free steak for the environmentally aware?

Carbon-neutral beef, available in Australia now,

is being posed as a new style of environmentally responsible red meat.

But is carbon-neutral beef all its carved up to be?

There's no need to totally drop red meat.

Advanced accredited practising dietitian, Melanie McGrice, also supports the study's findings.

However, she stresses that it's important that women don't over-react to its dietary messages about red meat.

"The research isn't saying that red meat is bad for us, just that a large intake of red meat may be. I believe it's worth checking your red meat consumption and ensuring that you're not consuming over the maximum recommendations of 455g per week," McGrice said.

Atkins adds that women should not consume too much lean poultry but instead, include it as part of a balanced diet.

Dietary advice for vegans and vegetarians

Atkins cautions against vegetarians and vegans eating poultry in order to reduce their risk of breast cancer.

"What's really important to know is that there is also evidence out there to suggest that non-starchy vegetables, dairy products and foods containing carotenoids, a certain vitamin A derivative, may also reduce your risk of breast cancer.

"So for vegans and vegetarians, if you have a nutritionally complete diet that is tailored to you, it can be really powerful in reducing your risk of chronic diseases," Atkins said.

Yasmin Noone



Recipe



Cook time 75 min
Serves 6

Giant chorizo and egg sausage roll

Ingredients

- 8 eggs
- 500g beef mince
- 2 (200g) fresh chorizo sausages, casings removed
- 1/2 red onion, grated
- 1 carrot, grated
- 1/2 cup dried breadcrumbs
- 1/4 cup chopped parsley
- 2 sheets frozen puff pastry, thawed
- 2 tsp sesame seeds
- Tomato chutney, to serve
- Rocket leaves, to serve

Method

1. Preheat oven to 200C/180C fan forced. Line a large oven tray with baking paper.
2. Bring a medium saucepan of water to simmer. Gently lower six of the eggs into water and begin timing for five minutes. Transfer to a large bowl of iced water to stop cooking. Peel and set aside.
3. Squeeze chorizo mince from cas-

ings into a large bowl. Add beef mince, onion, carrot, breadcrumbs, parsley and one of the raw eggs. Season and mix well.

4. Join pastry sheets together, overlapping by 2cm, to form one large rectangle. Spoon mince mixture lengthways along one side of pastry, leaving 2cm border at both short ends and along the other long end. Make a row of six indentations with the back of a spoon for the eggs. Add the eggs to the indentations.

5. Lightly beat the remaining raw egg and use to brush pastry edges. Using the baking paper to help, roll up to enclose filling. Place seam-side down on prepared tray and tuck ends underneath. Score top at 2cm intervals. Brush with remaining beaten egg. Sprinkle with sesame seeds and bake for 45 minutes or until filling is cooked through and pastry is golden and puffed.

6. Serve in slices with tomato chutney and rocket.

For more recipes, visit australianeggs.com.au

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Cost-effective Farm fire protection

AUSSIE Pump's new weapon this fire season is a big four-inch high-pressure fire pump that's ideal for property and shed protection.

Called the QPT405SLT, it is a cost-effective option for using dam water to supply a fire main for property protection.

The four-inch twin impeller diesel powered fire pump features a three-way outlet.

These means the pump can supply two three-inch discharge hoses or one four-inch hose.

These can be used as a fire main or even set up as a spray system for cooling sheds.

The self-priming pump uses twin impeller technology to provide high pressure and flow.

It can deliver pressures in excess of 125 psi and

flows of up to 46,200 litres per hour.

Its simple design makes it a cost-effective solution that is robust and easy to maintain.

Apart from the exceptional capability, the pump has the ability to self-prime from depths of seven meters.

That's a huge advantage as there is no need to prime the entire suction line prior to starting the pump.

The big pump is powered by a Kohler air cooled diesel engine developing 12kW power at 3600 rpm.

A big 60L long range fuel tank mounted in the heavy-duty steel base enables the unit to run continuously for up to 16 hours of running times.

The skid mount is a 'sled' design and is fitted

as standard with an integrated lifting bar that enables it to be easily moved around the site.

The pump body itself is manufactured from non-corrosive high-grade aluminium.

The twin impellers are also made from heavy duty alloy castings operating within heavy duty volute casings.

The Aussie four-inch pump will prime fast in 20 seconds from low suction heads and takes up to two minutes to prime from five or six metres.

Aussie Pumps product

manager, Brad Farrugia said, "This pump was recently installed on a waste reclamation property supplying the fire main used to protect recycled timber stockpiles."

"This pump was chosen because of its performance and self-priming ability and the feedback from site is very positive."

Further information on the new twin impeller QPT-405SLTD with Kohler air cooled engine is available from Australian Pump Industries or Aussie Pump Distributors throughout Australia.



Veolia's timber recycling facility at Horsley Park is protected from spontaneous combustion by an Aussie self-priming four-inch diesel drive high pressure pump.



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US KFC testing plant-based chicken nuggets and wings

YUM Brands said it will start testing Beyond Meat's plant-based chicken nuggets and boneless wings at an Atlanta KFC restaurant, the latest fast-food chain trying new options to attract vegan diners.

The quick-service restaurant will roll out its vegan menu items nationally, based on the customer feedback from the Atlanta test.

Yum is the latest big-chain restaurant jumping on the vegan bandwagon, a growing market as more fast-food chains tweak their menus to add new options for vegans

and "flexitarians."

Plant-based meat alternatives have seen booming interest from consumers and restaurants, supporting start-ups like Beyond Meat and its competitor Impossible Foods.

KFC, known for its fried chicken, will be serving the six or 12-piece combo plant-based nugget meals for \$6.49 and \$8.49 and boneless wings for \$6 and \$12.

Beyond Meat's shares rose about four percent before the bell.

The stock has risen more than three-fold since it went public in May.



USPOULTRY announces the release of a first-ever report of antimicrobial use across US broiler chickens and turkeys

US Poultry & Egg Association announces the release of the US poultry industry's first-ever report quantifying antimicrobial use on broiler chicken and turkey farms.

The new report shows dramatic reductions of turkey and broiler chicken antimicrobial use over a five-year timeframe.

As part of its commitment to the transparency and sustainability of a safe food supply, the poultry industry aims to strike a balance between keeping poultry flocks healthy and the responsible use of antimicrobials, especially those medically important to human health.

Under the research direction of Dr Randall Singer of Mindwalk Consulting Group, this report represents a five-year set of data collected from 2013 to 2017 regarding the use of antimicrobials in US broiler chickens and turkeys throughout their lifetime, from hatchery to harvest.

It was prepared through a systematic collection of on-farm antimicrobial use data to capture the disease indications and routes of administration through which antimicrobials were given to the poultry.

Given several key differences among broiler chickens and turkeys – namely differences in weight, life span, susceptibility to lifetime illness and the number of effective medical therapies available – the data from broiler chickens and turkeys should neither be combined nor compared.

Key changes among broiler chickens over the five-year period show:

- Broiler chickens receiving antimicrobials in the hatchery decreased from 93 percent to 17 percent;

- Hatchery gentamicin use decreased approximately 74 percent;

- Medically important in-feed antimicrobial use in broiler chickens decreased by as much as 95 percent. For example: tetracycline 95 percent, virginiamycin 60 percent;

- Medically important water-soluble antimicrobial use in broiler chickens decreased by as much as 72 percent. For example: penicillin 21 percent, tetracycline 47 percent, sulfonamide 72 percent; and

- There was a documented shift to the use of antimicrobial drugs that are not considered medically important to humans.

Key changes among turkeys over the five-year period show:

- Turkeys receiving antimicrobials in the hatchery decreased from 96 percent to 41 percent;

- Hatchery gentamicin use decreased approximately 42 percent;

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- Medically important in-feed antimicrobial use in turkeys decreased: tetracycline 67 percent; and

- Medically important water-soluble antimicrobial use decreased substantially. For example: penicillin 42 percent, tetracycline 28 percent, lincomycin 46 percent, neomycin 49 percent, erythromycin 65 percent.

Antimicrobial use among broiler chickens and turkeys decreased dramatically between 2013 and 2017 and there are a couple of key explanations for this:

- Changes in FDA regulations, which were fully implemented in January 2017, effectively eliminated the use of medically important antimicrobials for production purposes and placed all medically important antimicrobials administered in the feed or water of poultry under veterinary supervision;

- A continued focus by poultry companies on

disease prevention, thereby reducing the need for antimicrobials; and

- Improved record-keeping of all antimicrobial administrations, which is a key component of antimicrobial stewardship.

Furthermore, the broiler chicken and turkey industries have increased the production of animals raised without antimicrobials.

Participation in this effort was entirely voluntary.

The poultry industry recognised the importance of this work and responded.

The 2017 data in this report represent more than 7.5 billion chickens and 160 million turkeys.

USPOULTRY vice president of research, Dr John Glisson, said, "This research is the first step in determining how antimicrobials are used in the entire poultry production system of the US and to succeed, we need

participation from the majority of companies. We couldn't be more pleased with the response of the poultry industry."

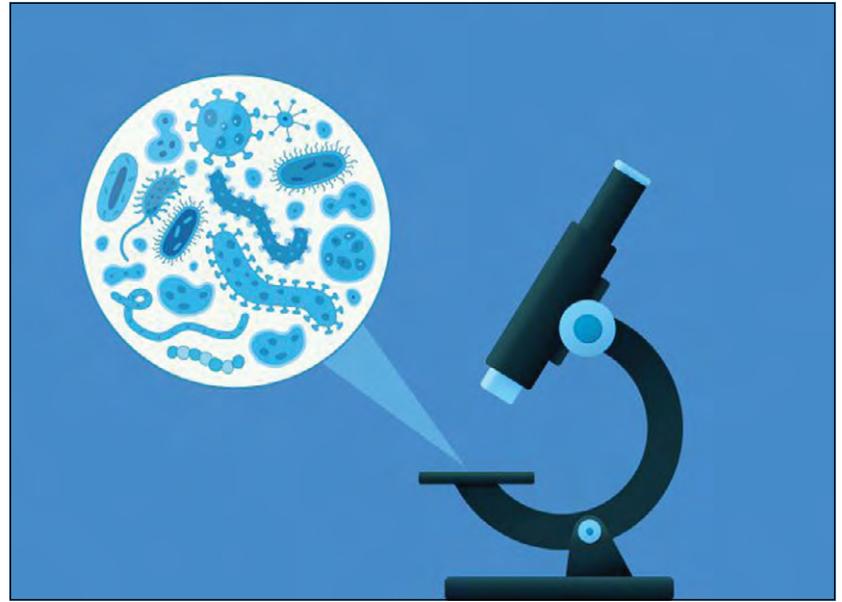
Glisson cautions, though, that there are still serious bird illnesses (necrotic enteritis, gangrenous dermatitis and colibacillosis) for which the poultry industry has few effective interventions.

When birds get sick from these diseases, they must receive therapy.

"Driving good antimicrobial stewardship in poultry, as opposed to simple documentation of reduced use, is our end goal for the best outcomes for both the people and the poultry," Dr Glisson said.

Moving forward in 2019, Dr Singer will continue the annual collection of data from the broiler chicken and turkey industries and will begin collecting data from the US table egg industry.

Glisson anticipates this new data will provide greater clarity about antimicrobial use in individual flocks. "We expect even more detailed data on flock antimicrobial usage and record-keeping in the years ahead, which thoroughly supports USPOULTRY efforts to ensure proper stewardship of medications."







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Elderly woman dies after being pecked by 'aggressive rooster', highlighting the dangers of varicose veins

AN elderly woman was killed after being attacked by an "aggressive rooster" while collecting eggs on her rural property in South Australia.

The woman's death was studied by University of Adelaide professor of pathology Roger Byard, who said researchers hoped to prevent similar deaths in the future by bringing the details to light.

Professor Byard said

the woman was collecting eggs from her chicken coop on her rural property in SA when the rooster pecked her lower left leg, causing her to haemorrhage and collapse.

An autopsy later revealed two small lacerations on her lower left leg, with her death the result of bleeding varicose veins.

"This case made us realise how vulnerable the elderly are, varicose veins

are very easy to damage. "Older people are also not as good at defending themselves against animal attacks, their balance might not be as good," he said.

The study recently published in the journal of Forensic Science, Medicine and Pathology, focused on the dangers for elderly people who had varicose veins.

Varicose veins are twist-

ed and enlarged veins which bulge above the skin's surface.

Professor Byard said the problem was that people with varicose veins could bleed very quickly.

"I've had a number of cases where people have just been wandering around in their home and just run into furniture which has caused a small injury," Byard said.

While Professor

Byard admitted rooster attacks were rare, he said this case, which had happened recently, raised concerns about the dangers of small domestic animals.

"They are very rare, there have been a couple of cases overseas where children have been pecked by roosters. Because they have thin skulls, the rooster has actually caused brain damage.

"There was another fellow in California who was at a rooster fighting pit and a rooster had a knife attached to its leg and stabbed or slashed him."

He said elderly people with varicose veins needed to understand they may be vulnerable.

"There are a couple of messages, one is never trust a rooster, the second one is if you've got varicose veins, get something done about it," Byard said.

Camron Slessor



The woman was killed after being pecked by a rooster when she went to collect eggs. Photo: Flickr-Blackthorn orphans.



Professor Roger Byard of the University of Adelaide.



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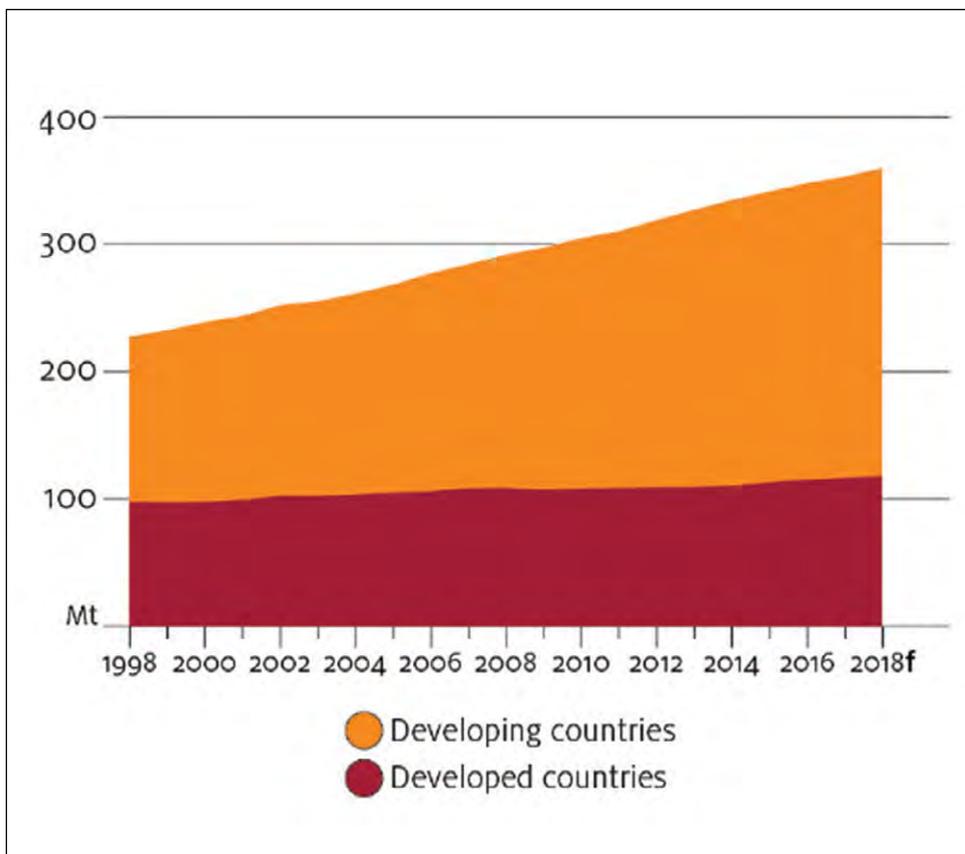


Figure 1: Meat consumption, developing and developed countries, 1998 to 2018f. OECD forecast. Note: OECD definitions of developing and developed countries. Source: OECD.

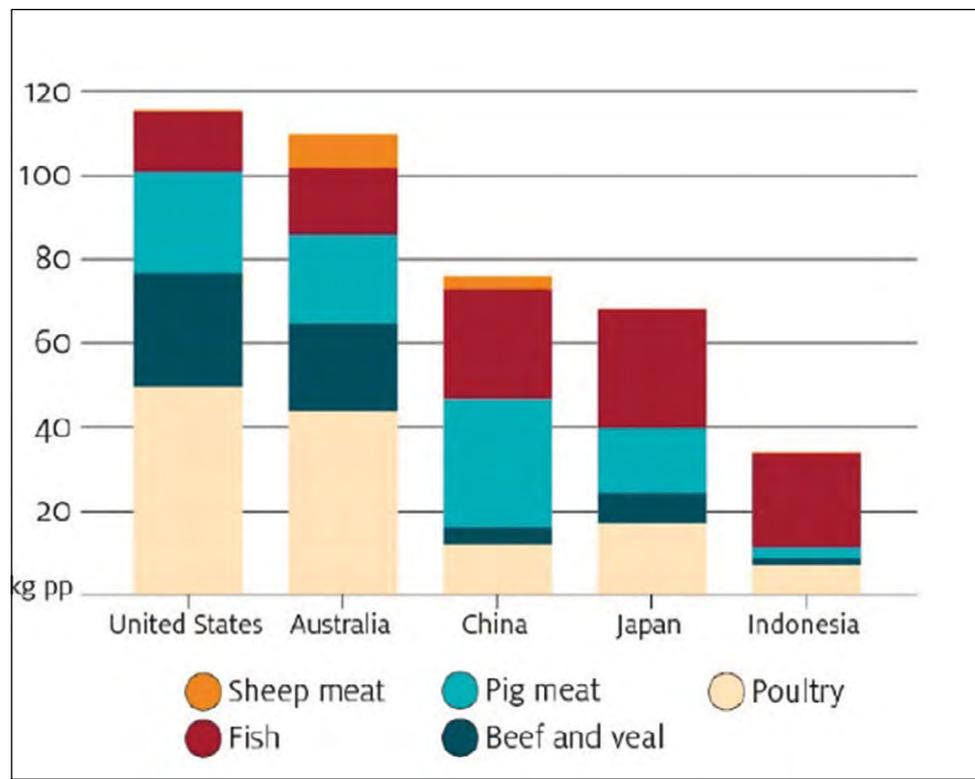


Figure 2: Per person consumption of meat, selected countries, 2018f. OECD forecast. Notes: Per person consumption data are expressed on an edible weight basis, estimated using OECD conversion factors of 0.7 for beef and veal; 0.78 for pig meat; 0.88 for poultry and sheep meat; and 0.6 for fish. Poultry includes chicken, duck, goose, guinea fowl, turkey and prepared liver. Source: OECD.

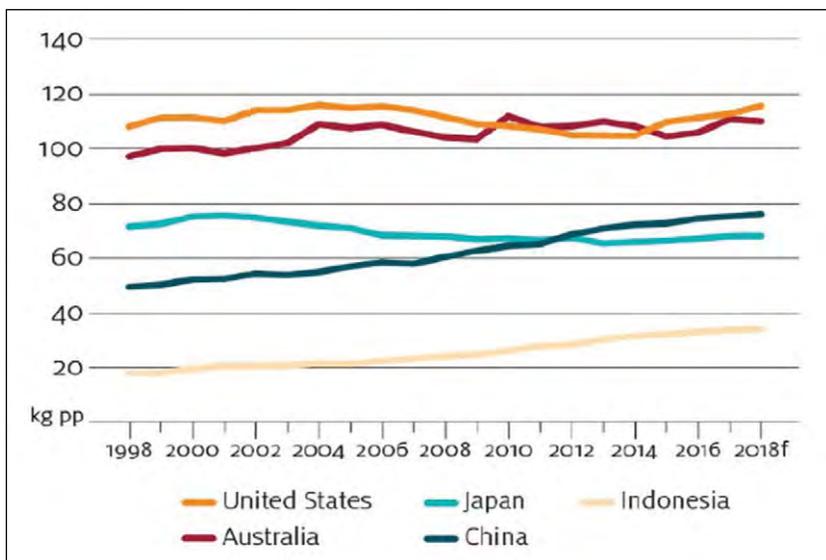


Figure 3: Per person consumption of meat, 1998 to 2018f. OECD forecast. Source: OECD.

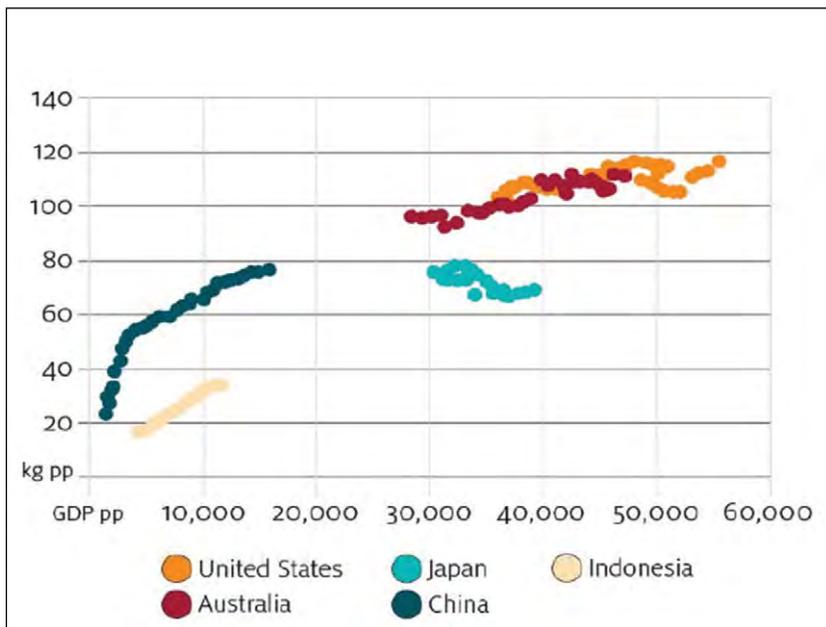


Figure 4: Meat consumption and GDP per person, selected countries, 1990 to 2018f. OECD forecast. Sources: OECD; International Monetary Fund.

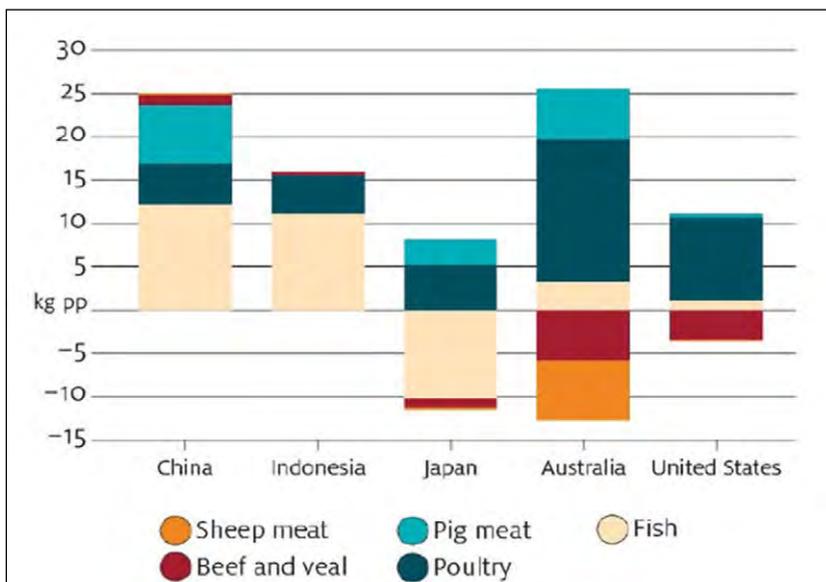


Figure 5: Changes in meat consumption, selected countries, 1998 to 2018f. OECD forecast. Source: OECD.

Global trends in meat consumption

GLOBAL meat consumption increased by 58 percent over the past 20 years to 2018.

Population growth accounted for 54 percent of this increase and per person consumption growth accounted for the remaining four percent.

Per person consumption was influenced most strongly by changing consumer preferences and income growth.

This article compares trends in meat consumption in Australia and some of its major meat export markets—China, Indonesia, Japan and the United States.

In the 20 years to 2018 developing countries accounted for around 85 percent of the rise in global meat consumption (Figure 1).

Between 1998 and 2018, Chinese consumption increased by 72 percent.

This increase accounted for 34 percent of global consumption growth.

Population growth has been the principal driver behind increased Chinese consumption of all meats.

Indonesia accounts for only three percent of global meat consumption.

However, the combination of population growth and strong economic growth between 1998 and 2008 resulted in Indonesian meat consumption more than doubling.

Strong Chinese demand growth and land constraints on meat production in Indonesia increased global import demand for meat.

These two countries are now major importers of meat.

In Australia and the United States, meat consumption increased over the 20 years to 2018 because of higher poultry consumption.

This demand is met principally by domestic production.

In contrast, total meat



consumption in Japan fell over the period.

Japanese expenditure on meat has fallen because the ageing population has weakened overall demand.

Per person consumption

When compared with its major export partners, Australia's meat consumption closely matches the United States (Figure 2).

In both countries' poultry is the most consumed meat at over 40 kg per person.

Beef and veal and pig meat each account for between 20 and 30 kg per person.

Fish accounts for around 15 kg per person and sheep meat for less than 10 kg per person.

In Japan and Indonesia, fish is the dominant source of protein by a large margin.

In China, pig meat is the most consumed meat, followed by fish.

Beef, veal and sheep meat form a relatively small share of consumption in all Asian markets.

Rising incomes increase meat consumption

Over the past 20 years, per person meat consumption has grown strongly in Indonesia and China.

Growth has been much slower in Australia and the United States.

In contrast, meat consumption fell in Japan.

Rising incomes are a major driver of increased meat consumption.

Between 1990 and 2018 higher real GDP per person coincided with higher rates of meat consumption.

However, the impact

that rising income has on meat consumption slows considerably as countries develop (Figure 4).

Per person consumption in China and Indonesia increased markedly with small increases in income over the period.

In contrast, Australian and US meat consumption was much less sensitive to income growth.

Japan is an exception to the correlation between consumption and income.

Per person meat consumption in Japan has fallen considerably since 1990 despite rising incomes.

This reflects an ageing population that is reducing overall expenditure on food.

Lower fish consumption accounts for most of the decline, reflecting changing consumer preferences towards a more western diet.

Other than fish, Japanese consumption of meat has risen at a rate similar to other developed countries.

White meat increasing per person consumption growth

Consumer preferences globally have shifted towards higher consumption of fish and poultry, which now account for a much larger share of meat consumption.

In China and Indonesia, a rapid rise in fish consumption has been driven by strong growth in domestic fish production compared with other meats.

Fish remains the dominant source of protein in Indonesia, accounting for around two-thirds of meat consumption.

In China, pig meat remains the most con-

sumed meat, but its share of the total has fallen from 48 percent in 1998 to 40 percent in 2018.

Fish now accounts for 34 percent of meat consumed in China.

In developed countries, growth in total meat consumption has been slower because it has been comparatively high for a long time.

In Australia and the United States, higher consumption of poultry has more than offset reduced consumption of beef, veal and sheep meat (Figure 5).

This trend has been primarily driven by the increasing affordability of poultry over red meat.

Meat consumption projected to increase

Between 2019 and 2024 meat consumption is expected to rise.

This is largely driven by population growth and rising incomes in developing countries.

Ongoing economic growth in Indonesia is expected to increase meat consumption.

Population and income growth will drive higher consumption in China.

However, per person consumption growth will slow as consumption approaches that of developed countries.

Consumption growth in Australia and the United States is expected to be minimal and moderate increases in poultry meat will be mostly offset by declines in beef, veal and sheep meat.

Globally, white meat is expected to continue displacing red meat in consumer diets.

However, this ongoing adjustment is assumed to be lower than over the decade to 2018.

Tim Whitnall and Nathan Pitts. Published on Australian Government Department of Agriculture.

Conagra Brands commits to higher welfare standards for broiler chickens

CONAGRA Brands collaborated with the Humane Society of the United States on the new goals, which are an expansion to Conagra's existing broiler chicken policy.

Conagra Brands, chief supply chain officer, Dave Biegger said, "Conagra Brands is committed to the humane treatment of animals and our belief is that creating quality food for our consumers is more than just putting ingre-

lients together, it also includes how we source those ingredients.

"We're proud to work with the Humane Society of the United States as well as others in the food industry to take meaningful steps towards positive change in broiler chicken welfare practices."

Vice president of farm animal protection at the Humane Society of the United States, Josh Balk said, "The Humane Society of the United States applauds Conagra for ad-

ressing the most pressing concerns related to chicken meat production. We're enthusiastic about our long relationship with Conagra and look forward to continuing our work together throughout 2019 and beyond."

Conagra Brands will work with its suppliers, peers and other external stakeholders in an effort to help achieve the following improvements in the treatment of broiler chickens by 2024:

- Source 100 percent of chicken used in products from either Royal Society for the Prevention of Cruelty to Animals or Global Animal Partnership approved breeds or strains;
- Offer improved environments that meet GAP standards for better light-

ing, litter quality and other enrichments;

- Provide birds with more space to perform natural behaviours, including a stocking density of no greater than six pounds per square foot and no use of broiler cages;

- Employ a multi-step controlled atmosphere processing system and avoid live-shackling or live-dumping; and

- Track supplier compliance via third-party auditing.

"We recognize that our 2024 goals require industry-wide partnership to succeed and we will collaborate across our value chain to further animal welfare while preserving consumer access to quality, affordable food," said Biegger.



Egg Farmers of Canada launches Eggs Anytime marketing platform

THE bold and funny ads show Canadians that 'it's not weird' to have eggs for lunch and dinner.

The campaign emphasises that eggs are a great meal choice, anytime and includes television, on-line, social media as well as digital out of home ads that use a dayparting strategy to show different meal ideas throughout the day.

Chief marketing and communications officer of Egg Farmers of Canada, Judi Bundrock said, "We want to reframe the way Canadians think about eggs."

"Eggs have long been loved as a breakfast favourite and this campaign is about getting Canadians to question why they can't enjoy eggs at any time of the day. With consumers increasingly looking for whole, healthy protein sources, the new campaign encourages Canadians to enjoy eggs at new meals, including lunch and dinner."

Egg Farmers of Canada

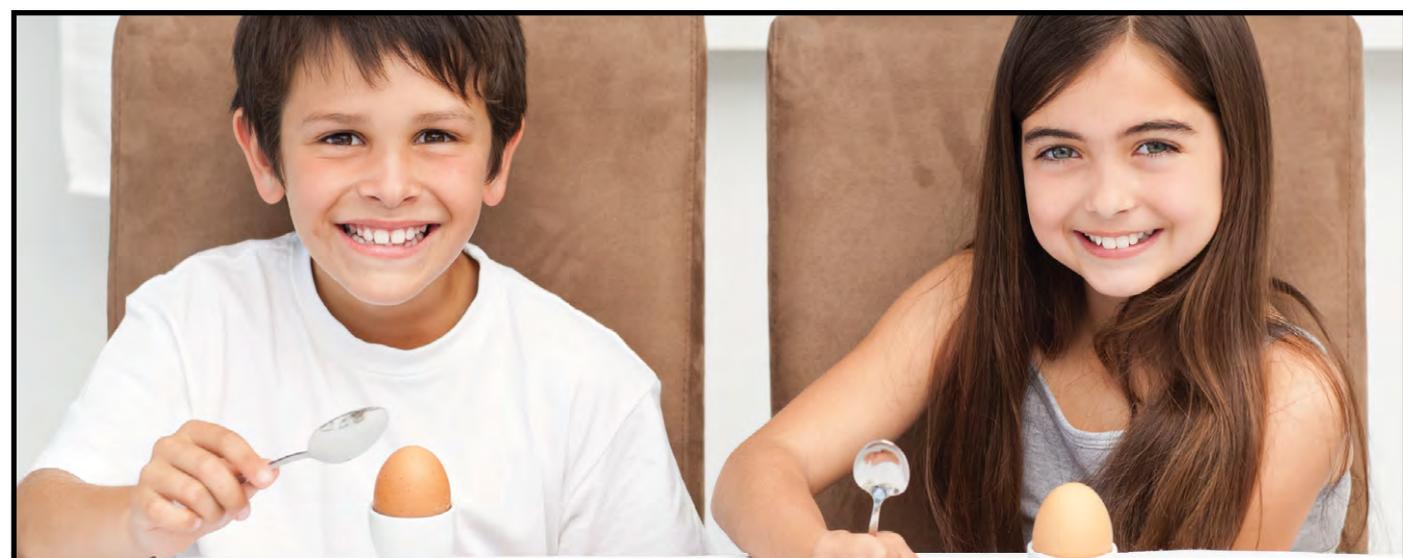
is changing perceptions about eggs as a breakfast-only food item and shaking up the way Canadians enjoy the product.

The creative material, developed by Cossette, takes a humorous approach and features a number of weird situations juxtaposed with eating eggs outside of breakfast.

The comparison challenges traditional thinking around meal occasions and underlines eggs can be the main feature of dishes anytime during the day, on any day of the week.

The campaign marks the first time in a long time the organisation is taking such an active approach in promoting eggs for all meal occasions.

From a trendy egg and mushroom tartine for lunch to a one-pot shakshuka dish for dinner, Egg Farmers of Canada is offering a range of quick and easy recipe ideas for your next meal.



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