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Speakers at the seminar: Zane Harper, John Riley, Hugo Dunlop, Edwina Beveridge, Laurie Brosnan, Sara Willis, Ken Cameron, Tracy Cooper and Maria Nolan.

Pork producers discuss industry challenges

MORE than 130 pork industry identities recently converged on Toowoomba to discuss new technologies adopted by producers to face the challenges in the grower herd.

The seminar and trade display organised by the Queensland Pig Consultancy Group with support from APL and DAFF was titled "Facing the Challenges in the Grower Herd - Where will you be in 2020?"

As an introduction to the program, John Riley of JCR Associates International summarised the current economic state of the industry.

Based on his knowledge of clients' businesses he suggested that the operating cost of producing a kilogram of pigmeat was in the order of \$2.90. Producers shared with delegates the decisions made in their businesses to ensure their long-term sustainability.

Edwina Beveridge focused on how the 2200 sow family business, near Young has invested in biogas technology to meet help the long-term future of their business.

Edwina showed two videos made by APL promoting the quality of management practised at Ballantyne Farms in relation to animal welfare and responsible environmental stewardship.

She explained how they harnessed methane to produce biogas to reduce electricity costs and earn carbon credits on a unit feeding by-products from the human food chain.

Zane Harper, the production manager of CEFN Pty Ltd, a 4000 sow piggery, spoke on the technologies adopted by his employer to insulate the business from external forces.

He stressed the need for research before investing in technologies.

Zane plays a key role in the planning, adoption and implementation of new technologies to improve labour efficiency, pig performance, feed utilisation and marketing.

Laurie Brosnan, a partner in Bettapork, a Biloela family business of 2000 sows, shared with those present the thinking behind the decision to build a completely new 2000 sow breeder complex to ensure the long-term sustainability of their business.

This new facility will allow

heavier weaners to be produced, resulting in improved performance in their nursery and grower sites.

Recruiting and retaining staff is a problem on many farms due to opportunities in the gas and mining industries.

Ken Cameron of CHM reminded those present that after feed cost, labour is the second highest production cost.

Along with Maria Nolan and Tracy Cooper of SeeChange Consulting, he discussed the innovative program implemented at CHM to improve staff performance, job satisfaction and staff retention at all levels in the business.

Dr Hugo Dunlop of Chris Richards and Associates presented a paper on how producers could achieve a better return on their investment in veterinary services and health programs.

Sara Willis, chairperson of the QPCG and a nutritionist with DAFF concluded the program by discussing the impact of feed usage on profitability.

Sara demonstrated that a reduction of 80g feed/pig/day or one teaspoon of feed/hr would result in an improvement of 0.1 in grower herd live weight FCR worth \$4.75/pig at current feed prices.

Snapshot of progress on "Shaping Our Future"

RECENT reports coming out of Europe have highlighted their ongoing difficulties in complying with the new laws for the housing of sows.

As you may remember, from January 1, 2013 all sows in the European Union were meant to be limited to a maximum of four weeks confinement in a sow stall for each pregnancy.

As recently as the end of January 2014, we're seeing headlines coming out of Europe such as "Europe Failing Consumers over Animal Welfare" (The Pig Site - January 31, 2014).

Reports are that as many as 15 European countries are under investigation over their failure to comply.

In North America the big United States companies and some in Canada are starting to ramp up their talk about "stopping using gestation crates", which of course in their terms means "from confirmation of pregnancy" or four to five weeks after mating.

It's timely - considering this lack of compliance in Europe and moves afoot in the US and Canada - to re-look at our industry's voluntary commitment around sow stalls and see how we are tracking.

Lack of progress from others can certainly help to showcase our industry achievements in this area.

In the past, the main vehicle to enable us to do this is our Annual Industry Survey, where we rely on the goodwill of our producers to tell us what they are doing production-wise, especially in respect to the types of



Point of View

by ANDREW SPENCER CEO



sow housing they are using on their farms.

When we collate and extrapolate this data we get a robust picture of the state of the industry - particularly around compliance with our sow stall phase out obligations and definition.

For all of those producers who have responded to the Survey, I would like to thank you very much for contributing.

This valuable information enables us to tell the industry's story and advise our regulators, politicians and the broader community of the great gains we are making in producing pigs according to the desires of our 21st century consumers.

For those among you who chose for whatever reason not to participate in the survey, you make the industry's job just that much harder to differentiate ourselves from our competitors, especially at such a critical time with what's happening overseas.

The complacency by a few will not slow the industry's progress to tell our positive story to the community.

To further substantiate

valuable information already collected in the Survey, additional information around sow housing arrangements has also been collected through the APIQ system and the relatively new Gestation Stall Free standard.

While it has slowed the overall project down, we are optimistic overall that industry progress on this very important subject will come to light in the next few weeks.

So watch this space.

I cannot articulate strongly enough, without our own succinct story we can't leverage and expose the mismatch between the claims and practices in North America and the EU.

In assessing the assets of our industry during the ongoing Strategic Planning process for APL, we are talking about our ability as an industry to work together in a cooperative fashion in a much better way than many other Australian livestock or agricultural industries.

We have shown this capability in the past and I hope that we have not become complacent in realising and leveraging this valuable asset for its full benefits.

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Australia has become a high feed cost country, as reflected in our relatively high average cost of production (\$2.42/kg carcass). Prof John Pluske of Murdoch University, Dr Yvette Miller of Portec Australia, Dr Megan Trezona-Murray and Karen Moore, both of DAFWA, with a FeedLogic system that can deliver measured amounts of feed to pigs. They attended a Pork CRC/APL Pig Day Out at DAFWA's Medina, WA research station in 2009.

Aussie pigs in global race not setting production pace

AT the production level, the Danes and Dutch continue to lead the pack with excellent/extreme reproduction, best Herd Feed Conversion values and highest carcass weight sold per sow/year, according to the 2012 cost of production figures for selected countries released in December.

I have summarised the costs and a number of key business indicators in Table 1, with the Australian figures being from the Pork CRC benchmarking project.

CRC participating
Our benchmarking project had 23 participants in 2012, representing herd sizes from 500 sows to very large herds, with many in the 1600 to 2600 sow range.

The large or mega producers involved in the project don't contribute data from all of their herds, but the information supplied covers the range of production systems they have.

While we have participants from every state except Tasmania and a couple from New Zealand, we'd welcome more participants.

To learn more about the information required and how and when it needs to be supplied, please contact Dr Rowan O'Hagan (email rowanohagan@bigpond.com or phone 0427 331 598).

The group meets at least once annually to discuss where everybody is at and to enjoy presentations



Initiatives

by DR ROGER CAMPBELL
CEO



from stimulating guests selected by participants.

All participant individual data is compared against the rest for all KPIs and reports are circulated to participants quarterly.

UK worst

The UK is the worst of the countries included in the summary.

While importing considerable pork from the Danes and Dutch, the British clearly are not importing or utilising the technologies, including genetics, developed and available to their neighbours.

At \$2.03 AUD/kg carcass weight, Spain had the lowest cost of production (COP) across the 12 EU countries in the 2012 survey, followed by France, Denmark and the Netherlands.

The average cost of feed in Spain was \$380 AUD/tonne and feed as a percentage of total cost was 72 percent, so low labour and other costs.

The Spaniards weaned an average 24.8 pigs per sow/year and produced 1864kg

carcass weight/sow/year.

Feed costs

Australia has certainly become a high feed cost country as reflected in our relatively high average COP, although in 2012 the Australian dollar was strong and adversely affected our comparative cost of production.

When our benchmarking project commenced in 2005-2006, average cost of feed was \$250/tonne.

Feed costs over the same time period have increased globally and between 2011 and 2012 they increased 5 percent on average and by 10 and 12 percent for the USA and Canada, respectively.

As suggested previously, our comparative COP in 2012 was 'inflated' by the strength of the Australian dollar and across the benchmarking group the lowest reported COP was 16 percent lower than the average.

The highest COP was 19 percent above the average and the differences were largely reflected of feed cost.

continued P4

Table 1 - Global performance indicators for selected pork producing countries - 2012

Country/Indicators	Australia	Canada	USA	GB	Denmark	Netherlands
COP (AUD/kg carcass)	2.42	2.08	2.06	2.39	2.10	2.10
Feed cost (\$/tonne)	382	384	342	414	360	376
Feed cost (\$/kg CW)	1.48	1.48	1.42	1.55	1.32	1.41
HFC	3.9	3.85	4.14	3.74	3.66	3.76
HFC (MJ DE/kg)	51.7	51.6	58.6	53.9	50.9	48.0
Pigs weaned/sow/y	23.2	23.6	24.9	22.8**	29.6	28.3
Pigs sold/sow/y	22.2	22.4	22.8	21.7	27.8	27.0
Carcass weight (kg)	75	96.3	91.6	79.1	80.7	91.1
Carcass weight/sow/y (kg)	1665	2160	2088	1716	2243	2459

**Pigs weaned/sow/y reported as 21.6 and 24.1 for outdoor and indoor herds respectively

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1. Data on file. 2. Davis RG et al. Onset and Duration of Immunity of a single dose of M*PAC. Proc. Leman Swine Conference 2003. 3. Jayappa H et al. Evaluation of Stability and Duration of Immunity of Mycoplasma hyopneumoniae bacterin. Proc. IPVS 2000: 165. 4. Groth D, et al. Evaluation of the efficacy of M*Pac in one- and two-dose regimens against competitor one-dose *M. hyopneumoniae* bacterins. Allen D. Leman Swine Conference Recent Research Reports, 2001; 28 (suppl):41.

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Table 2 - Changes over time in some reproduction KPIs for the average, top three herds and best herd in the Pork CRC Benchmarking project.

Year/KPI	6/7	7/8	8/9	9/10	10/11	11/12	12/13
Born alive/litter							
Average	10.8	10.8	10.8	10.7	11.0	11.4	11.4
Top 3	11.4	11.5	11.6	11.7	12.5	12.7	12.5
Best herd	11.7	11.9	11.7	12.0	13.4	13.7	13.4
Pigs weaned/litter							
Average	9.5	9.4	9.4	9.4	9.6	9.7	9.7
Top 3	9.7	9.8	10.2	10.3	10.7	10.8	10.7
Best Herd	10.0	10.2	10.3	10.4	11.5	11.6	11.3
Weaned/sow/y							
Average	22	22	21.8	22.3	23.0	23.1	23.2
Top 3	23.6	23.8	23.7	24.0	25.0	25.6	25.4
Best herd	24.0	24.0	24.1	24.1	26.8	27.4	27.0

Aussie pigs in global race not setting production pace

from P3

Go figure

Globally, HFC differed marginally across the countries compared, but if adjusted for sale weight, we look considerably poorer than indicated in the table.

The Pork CRC benchmarking project shows that HFC across our participants has plateaued over the last three years, although several participants have noticed significant improvement since vaccinating for circovirus and we should see some improvement in the next year.

The best herds in the project are reporting HFC around 3.6, which has always been our target.

We know we have the genetics to better the target, but feed efficiency is affected by so many factors and generally heads south of potential once pigs are exposed to the rigours of commercial production.

Nevertheless, we know producers are achieving values of 3.6 and below, so it can be done.

Reproduction trends

We continually discuss and worry about our reproductive performance.

While it would be good to wean 26+ piglets/sow/year, the average number weaned is similar or only marginally behind most other countries, except Denmark and the Netherlands.

Indeed, if you look at Table 2, which shows changes in some reproductive KPIs over seven years from our benchmarking project, you'll note the top herds are weaning 10.5 and more pigs/litter and 25.0-25.5 pigs/sow/year and there has been a general improvement in reproduction over time.

Some of the improvement is associated with 'better' herds joining the benchmarking project over time and the best herd, which is weaning 13.5 pigs per litter and 27 pigs per sow/y, is in NZ and the sows are housed in stalls in gestation.

We need these better herds in the project, so all participants can see what's possible and learn how the better herds achieve their figures.

Nevertheless, there are Australian herds approaching 26 pigs weaned/sow/year, so there are some reasonably good genetics out there.

There is no obvious change in reproduction reflected in the average or top three herds over the period when participants moved from stall to group housing of pregnant sows, although in 2011/2012 participants were expecting a marked improvement in piglets born and in reproduction in general, but this did not eventuate.

I also don't know which participants have yet to move to group housing, so it's a little confusing, but I can say there is no evidence in the indicators in Table 2 of a marked decline in reproduction at any point during the past three to four years.

Participant farrowing rate also showed a continual improvement during the same period, with an obvious dip in the fourth quarter of each year.

Pigs born alive and weaned/sow/year shows the same seasonal pattern.

Great expectations

Based on recent Pork CRC project outcomes, especially the feeding/nutrition of group housed gestating sows, we are seeing some excellent reproduction (farrowing rates and litter sizes) associated with higher feeding levels in early gestation, particularly for parity 1 and 2 sows and some good results associated with feeding younger sows carbohydrate supplements in the last week of lactation.

I'm not sure such 'technologies' will markedly improve reproduction, but things should go forward and we'll keep you updated as results come in.

I'm also not sure we'll ever match the Danes and Dutch in reproduction and maybe should set our target at 26-27 pigs/weaned/sow/year, which means we need to wean 11-12 pigs/litter and have 13-14 pigs born alive per litter.

We know from our research in commercial herds that the 'better' sows consistently have litters of 13-14 born alive and wean 86-90 percent of these.

It is the lower litter size sows and gilts that bring the average down, probably due to a genetic replacement challenge.

The good news is our average born alive for sows is 11.5 (total born: 12.5) and the top herds are approaching 13 (total born: 14.3).

If the trends continue and we can increase gilt litter size, I think some will get there in the not too distant future. I'll keep you informed.

The most improvement we've seen over time has been in pre-weaning survival, which improved linearly from 06/07 to 12/13 and in sow turnover, which improved every year for the first three to four years of the project and has levelled out at 53-55 percent.

Table talk

It is obvious from Table 1 that reproduction comes a distant second to carcass weight when comparing carcass weight sold/sow/year across the different countries.

In this respect, we are 32 percent lower than the Dutch and 19 percent lower than the USA and these differences are reflected in relative overhead costs and illustrated best by comparing Australia and Canada in Table 1: similar feed costs and HFC,

but marked difference in COP.

We know the reasons for this and that it doesn't indicate revenue/sow/year, which may be a better financial indicator, but it's clear that a higher price is required to cover the extra cost of production and in a global market this may not be sustainable.

Clearly we need to continue to work on differentiating our industry and our pork from the rest of the world, on selling more pigs/sow/year and convincing the supply chain that heavier weight pigs may benefit all stakeholders (or participants).

As with improving reproduction, progress may be slow, but we know that producers who sell heavier carcasses have a financial advantage in the current market.

SA day

At the Pork CRC supported South Australian Pig Industry Day at Roseworthy campus on Friday, February 21, I will talk on our Pork CRC benchmarking program, including what we're seeing with performance across Australia in group housing compared to stalls and/or part stalls.

Later on the same day, I'll talk on research outcomes critical for success in group housing.

I'll go into what has been identified in research to date, what is proposed and I'll ask SA producers what they think are the priorities to focus on based on their experiences in transitioning to date.

Very latest

The very latest research outcomes on sow welfare and reproduction of the effects of floor space, mixing pens and when sows are mixed (at weaning or after mating), will be presented and discussed at the upcoming sow workshops in Toowoomba and Melbourne on April 2 and 4 respectively.

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Brian Luxford Pork CRC Program 2 leader with Dr Rowan O'Hagan at the 2011 Adelaide launch of the CRC for High Integrity Australian Pork.

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Monday's media madness

I MUST say I joyously welcomed back a new season of Monday night current affairs on the national broadcaster, ABC TV.

For me the line-up in timeslot order of 7.30 Report, Australian Story, Media Watch, Four Corners and Q&A is just about the perfect start to any week, at least from the perspective of engaging debate, news analysis, human interest and the like.

Now whether or not the ABC has a left wing bias is not really for me to say.

Interestingly, albeit not surprisingly, our national ag boss, aka Agriculture Minister Barnaby Joyce, verbally and humorously jostled as only Barnaby can with Q&A host Tony Jones.

Barnaby's classic closing comment on Q&A was to say he was looking forward to a few sherbets (beers I take it) with his "mad lefty mates at the ABC" after the show.

Mr 'not so jocular' Jones harped on and on about the Federal Government's attitude to the ABC and, in particular, the PM's recent comments re how the ABC covered allegations of the Royal Australian Navy 'torturing' asylum seekers and the Indonesian spying scandal.

Oddly, and no TV news show does it better than Q&A in terms of pitting foe against foe on the same panel, a highlight was federal Opposition Deputy Leader Tanya Plibersek, effectively coming to the defence of 'foe Joyce' when she tried her hardest to convince the host that Barnaby was actually making sense on a few matters.

I always find it refreshing when arch enemies from opposite sides of the political fence can actually have the good grace to not incessantly nit-pick at each other and to publicly agree when it comes to such important and delicate issues as international diplomacy and foreign affairs, for example.

I particularly enjoyed the debate raised by a young journalism graduate in the Q&A audience about the obligation, at least in his starry eyes, for journalists to report something just because it's true.

This is where Barnaby and Tanya agreed, once again, with both arguing that just because something is known or found to be true shouldn't necessitate its publication.

Tanya said: "I think the other point Barnaby was making is just because something is interesting, it doesn't mean it is in the public's interest."

Both probably got a bit muddled in their examples of where the journalistic

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Cant Comment
by
BRENDON CANT

obligation pact would fall down, with Tanya saying it'd be wrong to report her having an illicit affair, if she was having one that is, and Barnaby suggesting that if a journalist found out sensitive home truths about residents of his own street and published them, he or she might find their house burnt to the ground.

The daughter of migrants from Slovenia, Tanya should know a thing or two about journalism, having studied communications at university.

After graduating she worked in the Domestic Violence Unit of the NSW Ministry for the Status and Advancement of Women and earned a Master of Politics and Public Policy at Macquarie University.

She was elected to the Australian Parliament as federal member for Sydney in 1998.

Barnaby, albeit with his father James Joyce sharing a name with a 20th century Irish literary giant, doesn't have quite the same contemporary communications pedigree.

Born in Tamworth NSW and raised in Woolbrook as one of six children on a sheep and cattle farm, he graduated with a commerce degree from the University of New England.

Elected to the Senate for Queensland in 2004 (term began July 1, 2005) and 2010, he resigned in August 2013 to successfully stand for the House of Representatives for New England, NSW.

With only six sleeps to go before next Monday's Q&A, I look forward to some more vigorous communications debate with panellists Minister for Communications Malcolm Turnbull, Shadow Attorney General Mark Dreyfus, comedian and broadcaster Dave Hughes and columnist for *The Australian* Janet Albrechtsen.

Until then, sleep tight.



What are we going to do differently?

THEY say there is nothing as certain as death and taxes.

They're wrong. Death and taxes are fairly certain and so is change.

If we all went back three years none of us would have guessed that pig pricing seasonality would have almost disappeared, we'd be more than half-way through a voluntary removal of sow stalls or that in 2013, a year of high grain prices, the average Australian pig farmer still made a positive margin.

Together we have changed some things, and we still face challenges.

The industry "Current Situation" facts that were discussed at the Australian Pork Limited Delegates meeting in May 2012 included:

- Ninety percent of Australian pork is sold in Australia
- At 10 percent share of fresh meat and 24 percent

AUSTRALIAN Pork™
Marketing Matters
by **PETER HAYDON**
General Manager Marketing



of total meat, there remain opportunities to grow domestically,

- At 0.2 percent of international pork trade, there remain opportunities to grow exports

• Australian pork at farm gate is 45 percent more expensive than the global average price

- Australian cost of both production and processing is not currently globally competitive

• Our nearest geographic neighbour has just al-

lowed imports of fresh pork.

It's not just our industry that is changing, some facts and forecasts borrowed from an SAP report, highlighting just five themes that will have impacts on our industry are:

1. The world has changed for some already, it's not just us – the number of pieces of mail in first world countries has fallen by 80 percent.
2. The future of communication is mobile and

video (at least viewable) – at the end of 2013 there were more mobile device connected to the internet than were people on earth.

3. Retailers are changing slower than consumers.

4. City dwellers will represent more than 50 percent of global population by 2050; they will get increasingly disconnected from the farm.

5. Young people trust other people (not ones they know) more than they do organisations, particularly big organisations.

So what to do?

The first and most urgent issue is obviously make money today.

I read somewhere that the long term is made up of a series of short terms.

Once we have accepted that change is going to happen whether we want it or not, we are free to take a role in creating the change rather than reacting to it.

For marketing, 20 years from now some consumers will still be cost effectively reachable by TV and radio, others however will not.

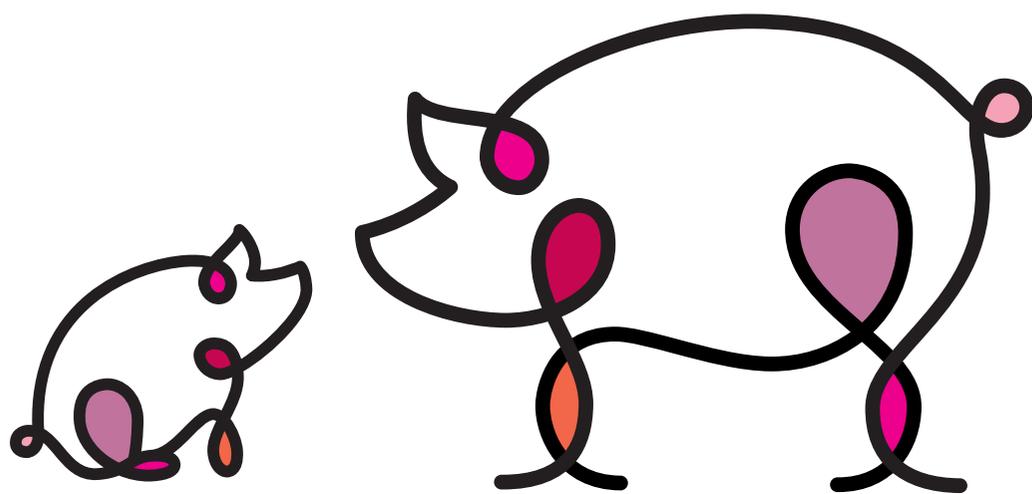
As a consequence, APL is on a track to bring digital marketing (email, web marketing and social media) in-house rather than outsource it to specialists in this area.

We know we have to build the skills for the industry to continue to communicate with smaller groups of consumers.

For now the question that as yet remains unanswered is: "How does the industry plan to change in order to influence rather than react to tomorrow?"

Almost all the APL delegates took part in teleconferences on this subject before Christmas.

It's certain that pretty soon we will have to stop discussing and make some choices. ↗



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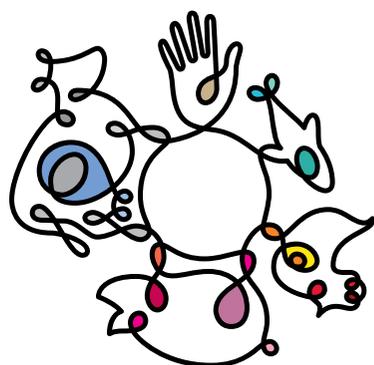
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Waste not want not



Megan Hawley

MEGAN Hawley recently commenced a PhD project, co-funded by the Pork CRC as part of Pork CRC Program 4 (Carbon conscious nutrient inputs and outputs), in the School of the Environment at Flinders University, SA.

She has a Bachelor of Science degree in microbiology and molecular biology and an Honours degree in environmental health.

Her research aimed to improve the assessment of the risk to human health associated with consumption of wastewater-irrigated lettuce.

'Advanced integrated treatment of pig slurry for algal biomass production and improved pig health'

Megan Hawley, Pork CRC PhD candidate, School of the Environment, Flinders University, South Australia

Supervisor: Prof Howard Fallowfield, Flinders University

About algae

According to Megan, Australia's pork industry is actively looking to reduce its environmental impact, particularly associated with greenhouse gas emissions.

Her project is in response to the recommendation of the Pork CRC commissioned review 'Algae for Energy & Feed: a wastewater solution', which recommended research into the integrated treatment of piggery slurry, including investigation of the potential for algae to further treat the wastewater and as a source of biomass for energy production.

The majority of Australian piggeries dispose of wastewater in deep ponds that operate with anaerobic bacteria to produce a biogas, which is rich in methane.

Some piggeries harvest this biogas and flare off the methane component.

A very few piggeries use the methane in co-generators to produce electricity.

Anaerobic ponds accumulate ammonia and retain significant pathogen levels.

This water is frequently reused as flushing water within the piggery, which may result in adverse health effects to exposed pigs, reducing growth rates and increasing feed costs.

Further, at high pH the ammonia prevents the growth of algae on the pig slurry.

CRC project

Megan's project will investigate the first stage of an integrated approach to wastewater treatment to remove the ammonia and pathogens and enable subsequent algal growth on piggery wastewater.

Aerobic treatment has been found to be an effective

removal strategy, capable of oxidising ammonia to a non-toxic form of nitrate.

Further, the metabolic energy produced by naturally occurring bacteria treating the waste can be recovered and may be used around the farm as hot water to be used for such things as replacing the electrical energy used in heat pads.

Since anaerobic digestion plays a key role in current piggery treatment strategies, Megan's project will investigate the integration of anaerobic processes with aerobic treatment and high rate algal ponds for the removal of ammonia, pathogenic organisms and energy production.

Slurry solution

The project, which aims to examine aerobic treatment of pig slurry from an anaerobic pond to enable successful algal growth on treated effluent, links into a larger project run by Flinders University in SA that is looking to generate heat, energy and quality wash water from integrated aerobic and al-

gal treated pig slurry to help the industry reduce environmental impacts.

A laboratory scaled aerobic reactor will be used throughout the research.

Chemical and microbial analyses will be performed on slurry treated in the laboratory scaled aerobic reactor to assess the ammonia removal and pathogen reduction potential of the integrated treatment train under a range of experimental conditions.

Integrated treatment

Results from this study will help evaluate an integrated treatment system for the disinfection of piggery slurry, which could lead to its use in piggeries around Australia.

It will provide valuable information regarding the optimal conditions needed to assist and run an on-farm scaled system, enhance wastewater quality for reuse in pig sheds, reduce production costs and enable algal biomass production for energy as part of the larger project run in South Australia.

Contact Megan Hawley, email haw10006@flinders.edu.au

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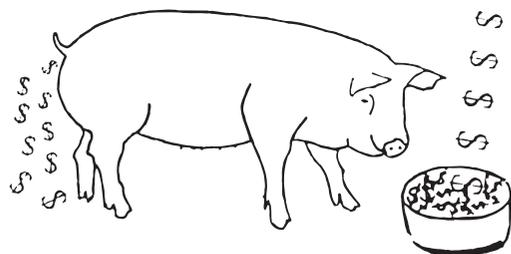
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Avoiding swill saves bacon

PIG producers, together with restaurants and food outlets that provide food waste for pig consumption are being reminded that swill feeding is illegal throughout Australia.

Anyone caught feeding swill to pigs could face significant fines under state legislation.

The stern reminder follows a recent Victorian Department of Environment and Primary Industries survey of regional Victorian restaurants, hotels and other food outlets.

The survey revealed that about 12 percent of the 613 businesses surveyed provided food waste to pig owners, with a handful of businesses now facing prosecution for the provision of swill to pig owners.

Animal Health Australia's chief executive officer Kathleen Plowman said pork producers should visit www.farmbiosecurity.com.au to learn about approved feeding practices and feed types for Australia's pig industry.

"The Farm Biosecurity website has a specific page for pig producers," she said.

"This page is your one-stop-shop for vital information on protecting your pigs through good on-farm biosecurity practices, including information on safe feeding methods and why swill feeding should be avoided at all costs.

"Farm Biosecurity helps secure your farm and secure your future."

Ms Plowman said swill is food waste containing meat or any other mammalian products or by-products, excluding milk.

"This also includes imported dairy products and any foods that have been in contact with meat, such as leftover vegetables on a plate from a Sunday roast, or even the leftover ham and cheese roll," she said.

"Swill could contain viruses such as African swine fever, foot and mouth disease and Aujeszky's disease, all of which could have far reaching impacts on Australia's livestock industry.

"Avoiding swill is a simple case of 'prevention is much better and cheaper than the cure'."

AHA is a not-for-profit member-funded company that works to protect and improve animal health within Australia.

It does this through its partnerships with industries and governments, which helps keep Australia disease free, builds the sustainability of our livestock industries and promotes the humane use of animals for food, companionship, recreation and sport.

To learn more about Animal Health Australia, visit www.animalhealthaustralia.com.au

Big visionary helped create D'Orsogna smallgoods empire

TOMMASO D'Orsogna (1918-2014), born to mother Concetta and father Luigi in an old house a few kilometres from the pre-Roman city of Lanciano in the province of Chieti and region of Abruzzo, Italy, travelled to Fremantle, Western Australia in 1933 with older brother Cesare.

By 1949, having battled harsh environments and other challenges including working at Wiluna, a tough town 1000km east of Perth on the edge of the Western Desert and being interned during World War II at Harvey in WA's south-west, Tommaso was married to his beloved Maria and had started T. D'Orsogna Family Butcher in West Perth.

It quickly grew and evolved into D'Orsogna Brothers (Tommaso, Gio-

vanni and Cesare), which today, although still headquartered in WA, also has a significant production, sales and marketing presence in eastern Australia and employs 500 or so people.

Its smallgoods products, many of which are highly innovative in their food style and packaging, enjoy an enviable national reputation and brand recognition, being stocked by the supermarket majors and with significant market penetration in the food service and delicatessen sectors.

D'Orsogna managing director Brad Thomason, delivering one of the two eulogies at Tommaso's St Mary's Cathedral funeral service in Perth, described him as a man devoted to his wife, children and grandchildren, but who also treated his

employees at D'Orsogna with similar respect, care and love.

"Tommaso, or Mr Tom as he was affectionately known in the factory, was a visionary and a man who knew there was never any value in sitting still, but there was always value in looking ahead and stepping forward in a considered and measured way," Mr Thomason said.

At the tender age of 15 and freshly landed in Wiluna, Tommaso, or Tom as he was by that time known, was too young to work in the mines with his father and brother Cesare, so he secured a job at the piggery and abattoir on the edge of town.

Known as Wiluna Meat Supply, it became his initiation into the meat industry and laid the groundwork for a lifetime of commitment to an in-

dustry he quickly grew to love.

He started his day at dawn, with a horse and cart, collecting food scraps from miners' camps to feed the pigs.

Soon after turning 16 he began an apprenticeship in the smallgoods factory attached to the Lakeway butcher shop in Wiluna, where he worked 12 hour days, six days a week under Harry Hunter, a gentle natured World War I returned serviceman.

Beset with health problems after being gassed on the Western Front, Harry later became seriously ill and while being visited regularly in hospital by Tom, he decided to share his secret smallgoods recipes with his keen young apprentice.

This would effectively change Tom's life forever. When World War II broke out in 1939, Tom lost his job and, as was the case with many Italians, was interned for four years at Fremantle gaol, Harvey, Kalgoorlie and Loveday in South Australia, along with his brothers Cesare and Giovanni.

Returning to WA in 1944, Tom worked at the Rob Jetty abattoir south of Fremantle before later moving to Melbourne, working by day in the continental smallgoods factory of Otto Wurth and at night as a waiter at Mario's Restaurant in Exhibition St.

He moved back to Perth and started the West Perth butcher shop and the rest is history.

When Tom's son Luigi D'Orsogna delivered his heartfelt eulogy at the January 18 funeral, he spoke of how his papa was always immensely proud of the family involvement in the business, which today includes his children, devoted son-in-law, nephew and nieces.

"Papa had a great affinity to the working class because of his origins and past experience and he dedicated his life to the community with the same boundless energy, determination, generosity and humility as he showed in his business activities," Dr D'Orsogna said.

A recipient of numerous awards and honours

during his lifetime, Tom D'Orsogna was particularly proud of the 1967 Cavaliere de Merito della Repubblica Italiana he received from the Italian Government for his contribution to the Italian community and for Italo-Australian relations and the 1988 Order of Australia in recognition of his contribution to the community.

After receiving the sad news of Tom's passing on January 8, Brad Thomason said his widely admired work ethic and generosity made him an inspiration to his family, his business, his 500 or so employees at D'Orsogna and the WA community.

"From very humble beginnings, he helped build a smallgoods enterprise that has proudly served West Australians the finest of continental meats for more than 60 years," he said.

"For many West Australians, Christmas wouldn't be the same without a D'Orsogna ham and I know Tommaso was proud of that tradition and the sense of family it brought to the table.

"He was devoted to his wife Maria and their children Concetta (Tina), Luigi, Loreta and Eugenio and will long be remembered and respected as a pioneer and visionary."

Brendan Cant



D'Orsogna managing director Brad Thomason (right) with D'Orsogna family board members (L to R) Marco (nephew of Tom), Tina and Eugenio.



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2014 Ron Collins Memorial Travel Award

APPLICATIONS are being sought for the Pan Pacific Pork Expo – Ron Collins Memorial Travel Award 2014

The Ron Collins Memorial Travel Award is proudly sponsored and supported by the 2014 Pan Pacific Pork Expo Committee, Australian Pork Limited and the *Australian Pork Newspaper*.

The Pan Pacific Pork Expo was created as an event that would attract both international and local pig communities to meet and share information and ideas. As well, it provided the Australian pig industry with the ideal forum in which to showcase the local industry.

The first PPPE was held in October 1998 in Brisbane. The inaugural event was a huge success leading to continuation of the event biennially. Ron Collins was one of the leaders of a group of industry forward thinkers who brought PPPE into life. He was also the owner, editor and publisher of Australia's leading pig industry newspaper *Australian Pork Newspaper*.

APN first saw the light of day in 1997 and is still produced today by Ron's son Ben Collins. Through his beloved APN Ron continued throughout his life to support every aspect of the Australian pig industry.

Tragically in 2003 Ron passed away after a battle with cancer. In memory of the tireless work and support Ron gave the industry the Ron Collins Memorial – Pan Pacific Pork Expo Travel Award was established.

PURPOSE OF THE AWARD

The Ron Collins Memorial – Pan Pacific Pork Expo Travel Award has been designed to assist a person involved in any part of the industry supply chain to travel overseas and further investigate a nominated innovative topic that would be of benefit to Australia's pork industry.

AWARD VALUE

The total award is valued at up to \$10,000. Overseas travel limited to \$6000.

CLOSING DATE

All applications must be received by the Committee by close of business Monday, April 28, 2014. No late applications will be accepted.

For further information and application forms contact: Wayne Bradshaw on 0429 301 500 or email wbradshaw@jefo.com

Send completed applications to:

Darryl D'Souza
Ron Collins Memorial Travel Award
C/- Australian Pork Limited
PO Box 4746
Kingston ACT 2604
or email
darryl.dsouza@australianpork.com.au

Australian Pork
NEWSPAPER



Be prepared

THE storm season is off and running in Queensland, not to mention the severe heat waves across the various states.

While Mother Nature can strike anywhere and at any time, you will come out of an event better if you are prepared.

As cyclone Dylan approached the coast of North Queensland in late January, Pork Queensland Inc. director and pig producer Robyn Boundy from Mareeba contacted the producers who were likely to be impacted by the cyclone with some helpful suggestions.

Having been through cyclones Larry and Yasi, Robyn had first-hand experience to assist and advise producers in preparing for the event. This time thankfully there was no reported damage to any pig facilities.

Whether it is a cyclone, flood or fire, many producers find themselves underprepared and this article is to challenge your level of readiness.

Some of the things you should consider include a list of emergency contacts from police, State Emergency



President's Perspective

by JOHN COWARD



Services, fire services and the disaster control centre for your area.

Power supply is one of the first services that can be lost, so contact numbers need to be readily available, as should your alternative service option.

Testing backup generators and having adequate fuel supplies is a good start.

Some emergency roofing material is also a good consideration, as while the SES can assist, it will prioritise public demand first.

With strong wind a common occurrence in storms and cyclones, checking and tightening feed bin and auger tie-downs can limit disruptions from potential damage to these structures.

To assist in addressing the potentials, you should think about what you would do and who would be involved if any of your critical supports were dam-

aged or lost.

Identify all the key elements of your operation and record them on paper, and the actions you would take if required.

This should include suppliers of feed, and don't forget staff who may not be able to get to work in a flood or fire situation.

This document and the key contact numbers should be part of your emergency response plans and kept in a handy position to use if required.

By developing an emergency response plan you and your staff will be better prepared to manage a disaster event and limit its impact on your business.

Pork Qld Inc. has three directors trained as industry liaison officers to assist government and industry recovery from a disaster event, whether a natural disaster or an exotic disease outbreak.

Overdosing zinc in feed could encourage antibiotic resistance

OVERDOSING zinc in feed for just-weaned piglets could encourage the occurrence of drug resistant bacteria according to Prof Dr Jürgen Zentek from the Free

University, Berlin, Germany.

Prof Zentek spoke at an international conference in Breda, the Netherlands, around the use of zinc in piglet feed.

Zinc as zinc oxide is usually used as piglet feed additive to avoid post-weaning diarrhoea.

Application of zinc comes with precision, as too high volumes of zinc in feed are known to end up in the environment.

Usage in the European Union for that reason is restricted to 150mg/kg feed.

Prof Zentek emphasised that not only the environment can be negatively affected by zinc – the piglets themselves can be too.

"Zinc has a very clear impact on the bacterial profile," he said.

Recent trials indicate that at high levels zinc can cause a significant increase of multidrug-resistant *E. coli*.

In addition, at higher dosages, use of zinc can lead to a significant increase of *E. coli* genetic diversity.

Other bacteria, like lactobacilli, appear to be sensitive and populations can go down.

Prof Zentek pointed to zinc's 'Janus head': "Too much zinc can be toxic, can have unwanted anti-

microbial effects.

"And too little does not support growth as it is an essential trace element."

Environment

The effect of zinc on the environment was explained by Dr Eric Smolders from the division Soil and Water Management at the University of Leuven, Belgium.

Dr Smolders said that setting limits for zinc usage like the EU did is all a matter of risk assessment.

"There is a danger, but on a low level. It is not about tomorrow, but about the next 150-300 years," he said.

"Zinc is a metal that is not biodegradable.

"All that we add today will stay in the soil.

"It depends on a regulatory choice on what timeframe we are looking at.

"So the usage of zinc versus antibiotics is a balancing of risk."



Prof Dr Jürgen Zentek
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Naturally ahead



Pork CRC project leader profile

Project 4B-110: Further development of a reactive lysine NIR calibration for soybean meal

A PORK CRC project leader in Subprogram 4B 'Enhanced use of traditional protein and energy sources', Jae Kim is a research officer at the Department of Agriculture and Food Western Australia and an adjunct senior lecturer in the School of Veterinary and Life Sciences at Murdoch University, WA.

Jae commenced his animal science career by completing his BSc (Animal Science) degree in 1990 at Chungnam National University, South Korea.

He then spent about four years in the local feed processing industry, gaining considerable industry experience, before returning to university.

Before completing his MSc (Nutritional Science) degree at Massey University, New Zealand in 1999, he was partly investigating the Premium Grains for Livestock Industry Program with Prof John Pluske.

Jae came to Australia in 1999 and obtained his PhD from Murdoch University in 2004.

Before being appointed a Research Officer at DAFWA, he received post-doctoral training at Murdoch University until 2005.

At DAFWA, Jae does diverse nutrition research, including energy and amino acid utilisation efficiency, role of non-starch polysaccharides and protein on clinical expression of haemolytic post-wean-



ing diarrhoea and the role of nutrition for chronic immune system activation.

Rapid screening

Jae's research in the Pork CRC Project 4B-110 focused on developing a rapid screening tool for protein quality in soybean meal and soy protein concentrate, using Near-Infrared-Spectroscopy.

Oilseed meals such as SBM have been scrutinised recently because heat processing during the oil extraction process severely decreases bioavailability of lysine, the most important amino acid.

Bioavailable lysine (reactive lysine) refers to lysine available for body protein deposition after digestion and absorption in the small intestine.

The problem the pig industry currently has in evaluating protein quality is that laboratory techniques to measure reactive lysine content in a protein meal are too complicated, time consuming and expensive.

Therefore, the possibility of developing a NIR calibration that offers a

fast, economic and robust test of reactive lysine was investigated.

Analysing lysine

Until this project was initiated, there was no Australian laboratory analysing reactive lysine content and samples had been sent overseas for analysis.

DAFWA biochemistry team started from scratch and successfully established reactive lysine analysis using the homoarginine technique in the Animal Health Laboratory, DAFWA.

This is an important development as the bioavailability of lysine in heat treated protein ingredients can now be tested within Australia at significantly lower cost and in a shorter time than previously possible.

The earlier Pork CRC Project 1B-112 'Quantification of the variability in the amino acid and reactive lysine content of soybean meal and development of a NIR calibration for rapid prediction of reactive lysine content' then established a NIR calibration for reactive lysine in soybean meal samples.

The project initially collected 216 samples from the major SBM producing countries, including USA, Brazil, Argentina, China and India.

There was a 27 percent variation in reactive lysine content (21.9g - 30.1g/kg as is basis) across all samples and 13 percent variation within shipment samples, suggesting wide variation

in reactive lysine content in SBM samples and the use of spot-sampling to analyse reactive lysine content can be a dangerous practice.

The first version of the calibration was established but had a weak predictability for reactive lysine content in soybean meal.

Stronger prediction

Therefore, Pork CRC Project 4B-110 was initiated to strengthen the predictability of the existing SBM reactive lysine NIR calibration to the level applicable for robust and reliable measurement of reactive lysine content.

This project collected 93 additional samples of SBM and soy protein concentrate to further extend the range of calibration.

Based on 309 samples from 1B-112 and 4B-110, a NIR calibration was established.

The updated calibration predicts total and reactive lysine with the standard error of cross validations of $\pm 1.02\text{g/kg}$ and $\pm 0.96\text{g/kg}$ (as is basis), respectively, with R^2 of 0.94 and 0.95. These values mean that the total and reactive lysine contents of unknown soybean samples should be predicted with 95 percent confidence to be within 2.04 and 1.92g/kg of the actual value.

Clearer calibration

As not all reactive lysine in a soybean meal are digested and absorbed in the small intestine of pigs, additional calibrations

were established to predict standardised ileal digestible reactive lysine content, which is the reactive lysine ultimately available for protein deposition.

The linear regression equations developed from the previous *in vivo* experiment (Pork CRC Project 1B-112) where standardised ileal digestibility was determined in growing pigs after feeding a range of heat damaged soybean meal were used for regression of SID reactive lysine in the 309 samples.

Based on these data, a calibration for prediction of SID reactive lysine was established with a similar accuracy.

Therefore, the version two calibration can now predict reactive lysine content and ileal digestible reactive lysine content in SBM and soy protein concentrate in one scan and more accurately.

Project leader

Dr Jae Kim also leads Pork CRC Project 4B-120 'Commercial validation study for sulphur amino acid requirement in finisher pigs' and Pork CRC Project 2C-110 'Dietary manipulation of the pro-inflammatory cascade to minimise impacts on production and health indices in weaner pigs experimentally infected with an enterotoxigenic strain of *E. coli*'.

Contact Dr Jae Kim, email jae.kim@agric.wa.gov.au



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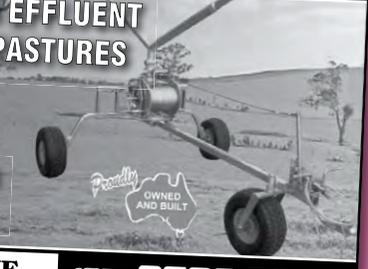
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Hot dates for pig production course students

DESPITE the hottest of hot conditions in South Australia during last month's annual two-week Pork CRC supported 'The Science and Practice of Pig Production' course at the Roseworthy campus of University of Adelaide, it once again attracted plenty of interest from pork industry workers and students.

According to SARDI's Prof Paul Hughes, who successfully put it together, the 2014 course covered all aspects of pork production, from genetics and reproduction to nutrition, housing, welfare, health and pig meat.

"Course attendees recognise that there's a wide diversity of background

knowledge among them and they appreciate that no background knowledge is assumed and everything is taught from scratch," he said.

"Even so, both the science behind pork production and its practical application on-farm are encompassed in the two weeks.

"Perhaps the most appreciated course components are the visits and practicals, ranging from hands-on learning at the Roseworthy piggery and in the post-mortem laboratory, to visits to commercial piggeries, an AI station, feed mill and abattoir.

"At the end of the day, university students assimilate some of the practical

knowledge held by those from the pork industry, while the pork industry people bulk up their overall knowledge and increase their understanding of the science underlying and underpinning pork production.

"If that's not enough, the group also gets to positively socialise and network, make new friends and even visit a few wineries in what was at the time a very hot Barossa Valley."

According to Pork CRC research manager Graeme Crook, the students endured a five-day heatwave during their first week, with temperatures rising to 46.4C on a day when Roseworthy recorded the highest tem-

perature in the state.

All, however, survived and relished the relatively cooler weather in the second week, while undertaking field trips to piggeries and other facilities associated with the pig production industry

and classroom and practical sessions with Paul Hughes, Assoc Prof Roy Kirkwood of University of Adelaide, Tony Edwards of Ace Livestock Consulting and Dr Roger Campbell, CEO of Pork CRC. www.porkcrc.com.au



Lectures, along with practical visits to industry, make for an interesting mix in the annual Pork CRC supported 'The Science and Practice of Pig Production' course.



More than 30 of the 40 who enrolled in the course are pictured with coordinator Prof Paul Hughes.

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AT the time of writing, ASX Sorghum for March 2014 delivery was worth approximately \$335 track and May 2014 was worth \$338.

The ASX Sorghum contract is a track contract for both Brisbane and Newcastle.

If you have a bought hedge in place for March 2014 sorghum and your piggery is in South West Queensland, one aspect you will want to know is which port zone does the \$335 represent?

In other words, where is delivery more likely?

Is it Brisbane or Newcastle port zone?

Depending on the port zone delivered, you may be interested to hold on to that bought position and take delivery of the grain within the network of the



by **DOUGAL HUNTER**
 Manager
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ASX approved bulk handlers for sorghum are GrainCorp and AWB GrainFlow.

There are two ways you can assess the market price in terms of port zone:

- analyse the location of stock lodgements as detailed in the ASX Grain Holding Report which is available on the ASX website; and
- compare the ASX price with sorghum prices trading in both port zones via merchant bids/offers.

It is the seller's responsibility to lodge the stock they wish to tender/deliver against their sold position.

Delivery economics will dictate which port zone represents the least value for the seller.

A seller is most likely to deliver in the port of least value.

It is important to note that the port of least value can, and does, change at any time.

That is within delivery periods, between delivery months or between seasons.

The port of least value is a continuous assessment of the local supply and demand fundamentals in each port zone.

This year, drought has adversely impacted the sorghum crop in both the Brisbane and Newcastle port zones while the port zones south of Newcastle recorded decent winter

harvest results.

Given the feed market pressure currently in place, it may be reasonable to expect that Brisbane will trade at a premium to Newcastle.

If you do take delivery, you will want to know how the price paid for the ASX Sorghum is adjusted once delivery is made.

Delivered ASX contracts are settled Free In Store.

Knowing the FIS price will help you assess whether delivery makes sense when compared with alternatives.

The example below is based on 1000 tonnes of sorghum hypothetically lodged and delivered at GrainCorp Toobeah (Brisbane port zone).

Industry training

The Pan Pacific Pork Expo will no doubt be well attended by pork producers from around Australia.

If demand warrants, ASX is happy to run an industry training course on the products and how they can be applied to hedge your grain price risk.

ASX has been running similar courses for Australia's lot feeding industry as well as international end users of Australian wheat based in South-East Asia.

Feedback received to date suggests that the training has been worthwhile for all concerned and may provide you with an opportunity to clarify issues on how it all works.

If you are looking to attend PPPE and would be interested in undertaking a workshop on hedging your grain price risk some-

time during the week of the conference (before or after), then please contact ASX on 02 9227 0197 to register your interest.

Where can I learn more?

The ASX Grain Futures and Options market provides piggeries with tools to manage exposure to grain price risk.

If you are new to the world of derivatives and would like to discuss your business aims and develop a hedging strategy that satisfies your requirements, seeking the professional services of a risk management adviser is the next step.

A contact list of licensed advisers is available at www.asx.com.au/grainfutures.

Disclaimer: This article is general and summary information only. It does not take into account your individual circumstances and to determine whether it is applicable to you, or should you require further information, please consult your licensed financial advisor.

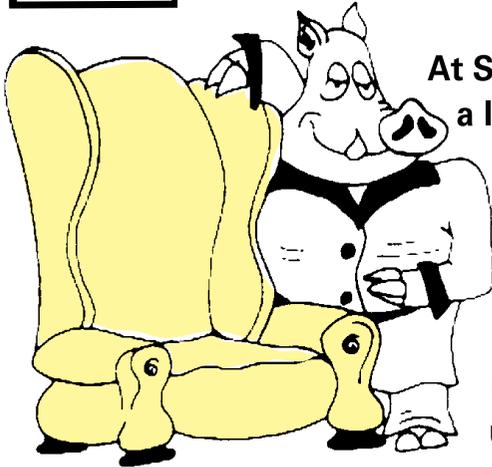
Details	Value	Explanation
Number of Contracts	50	One contract = 20 tonnes (1000 tonnes)
Value	\$305,390	= Gross Price * Tonnage
GST	\$30,539	10% of Value
Total Value	\$335,929	GST Inclusive
S&H Company	GrainCorp	Name of Approved Bulk Handler
Location	Toobeah	Silo name
Shrinkage	0.7%	As per applicable SHA ¹
ASX Futures Track Price	\$335.00	As traded and quoted on ASX ²
Less GTA Location Differential	-\$38.50	GTA Location Differential ³
Up Country Price Delivered	\$296.50	
Plus Receival Fee	+\$6.75	As per applicable SHA
Up Country Price Free in Store	\$303.25	= Up Country Delivered + Receival Fee
Gross Shrunken Price Free in Store	\$305.39	= Up Country FIS / 0.993

¹ Bulk Handler Storage and Handling Agreements (SHA) reviewed and updated annually.
² The tender is calculated based on the settlement price on the day of tender. In this example it is assumed that \$335 is the settlement price on the day of tender as well as the traded price when the bought hedge was opened.
³ Grain Trade Australia (GTA) Location Differentials updated October every year and available from www.graintrade.org.au

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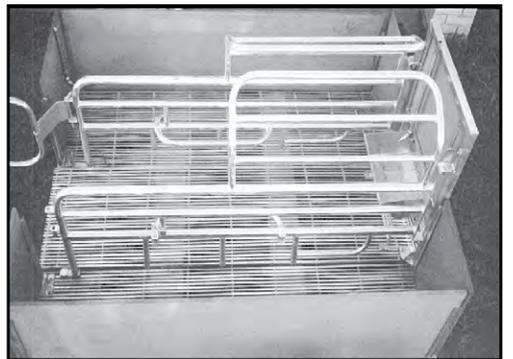
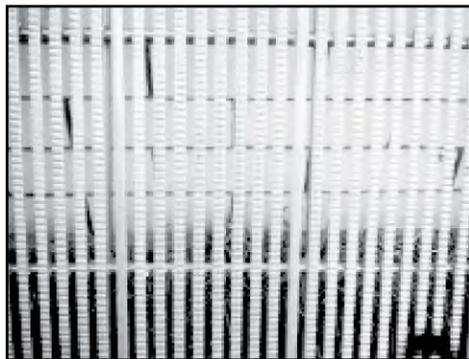
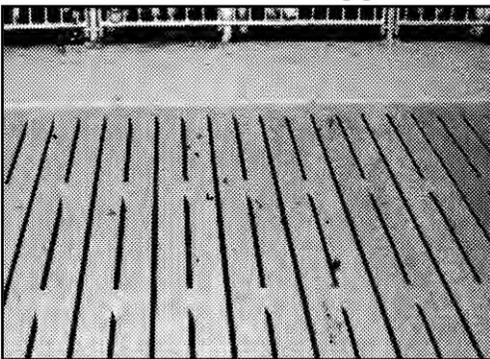
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Pork breeding and reproduction seminar

PORK producers are invited to attend a seminar on breeding and reproduction in pigs to be held in Wagga Wagga on March 3.

Department of Primary Industries Development Officer Pigs, Jayce Morgan said the seminar provides an opportunity for pork producers from all production systems to network and to learn from industry experts.

"Discussions will cover the latest research and development on pig breeding and reproduction," Ms Morgan said.

"Guest speakers include Dr Tim Safranski Associate Professor and Extension Swine Breeding Specialist visiting from University of Missouri-Columbia USA.

"Dr Safranski will share with Australian producers the North

American perspective on tools to manage reproductive efficiency on the sow farm.

"Dr Safranski has been involved in extension, education and 'on-farm trouble-shooting' for producers of all sizes and all production systems.

"He has significant US national and international recognition in the area of swine reproduction.

Ms Morgan said also speaking is Prof Paul Hughes program leader, Intensive Livestock Production Systems, South Australian Research and Development Institute.

"Prof Hughes is well known in the industry and has extensive experience in pig reproduction and research," she said.

"He will provide an update on the New Pork CRC findings on breeding herd management."

The seminar is supported by the Pork CRC and SARDI.

Ms Morgan said the seminar follows the NSW Farmers Pork Group AGM and will commence at 3pm with afternoon tea.

"The seminar will conclude with drinks and dinner sponsored by Pork CRC and NSW Farmers," she said.

The NSW Farmers Pork Group AGM at 1.30pm and the Swine Reproduction Seminar from 3pm will be held at the Carriage House Motel, corner of Sturt Highway and Eunony Bridge Road, Wagga Wagga on Monday, March 3.

RSVP by Tuesday, February 25 is essential for catering purposes.

Contact Jayce Morgan on mobile 0428 416 518 or emailjayce.morgan@dpi.nsw.gov.au

Fire survival success

THE Fire Ready Survival Plan published by Aussie Pumps has been a hit with communities across Australia.

The plan is available online or in hard copy and many farmers are significantly better prepared for this season's catastrophic fires thanks to the guide.

Fire-fighting authorities have urged home owners to assess risks in their areas and take appropriate precautions.

Aussie Pumps' Adam Scully said loss of property, livestock or even human life can be avoided if properties are properly prepared.

The Aussie Bushfire Survival Plan maps out two options; stay and defend or leave early and

avoid the fire altogether.

The company warns against emotional decisions about staying to defend when equipment, water or supplies are inadequate.

"People think they can use their pool pump or other electric pump to protect their property," Scully said.

"What they don't realise is that one of the first things that happens in a bushfire is that the power goes out, leaving an electric pumping system useless."

The foundation of a protection plan is a quality petrol powered pump.

The Aussie Fire Chief, designed for Australian bush fire-fighting conditions, is the best option

and is sold by Australian Pump Industries all around the world.

It's typical of the type of top quality product that should be the heart of any external sprinkler or fire protection system.

The Aussie Survival Plan deals with an analysis of the site conditions and provides recommendations and practical advice on property fire protection systems.

Property preparation and guidelines on design and installation of sprinkler systems are all included in the guide.

Other vital information outlines the advantages and features of either petrol or diesel drive pumps, the use of lightweight, Ultralite pumps and the absolutely vital pre-season preparation and servicing that must be carried out to equipment to make sure it works when it has to.

"We choose Honda engines to power our fire pumps because of their reliability," Scully said.

"The engines will start first time, every time, a feature that could mean life or death."

The Aussie Fire Chief is available in either 5.5hp or 6.5hp genuine Honda engine configurations.

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That means a lot of water and high pressure where it's needed.

This powerful pump will enable operators to run a sprinkler system while at the same time supporting a 1" fire-fighting hose and nozzle for "mop up" fire fighting.

Australian Pump recommends that home owners get the advice of their local fire fighting authority.

The company is rushing to produce more copies as the demand for the survival guide has gone sky high with the soaring temperatures and heightened fire danger of the current season.

Further information, including the Bushfire Survival Plan is available from www.aussiepumps.com.au or from Aussie Gold dealers around the country.



Martin O'Hare from Bella Vista believes the Aussie Survival Guide is an invaluable aid to property protection.

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Australian FeedSafe Accredited Manufacturing Sites

NEW SOUTH WALES		
Ambos Stockfeeds	Gateway Products	Farmgate Stockfeeds
Baiada (Tangaratta Stockfeeds)	Goldmix Stockfeeds	Five Star Feeds
Ben Furney	Hyfeed Holdings	Frankling Custom Feeds
Bowral Co-op	Mi-Feed	Hellay Australia
Conqueror Milling Company	Performance Feeds	Heytesbury Stockfeeds
Coprice Feeds	Rabar	Heywood Stockfeeds
Goldmix Stockfeeds	Ridley AgriProducts	Hy Gain Feeds
Inghams Enterprises (Mitavite)	Riverina Australia	Irwin Stockfeeds
Integrated Stock Feeds	Soya Feeds	James Stockfeed and Fertilizers
Lienert Australia	Woods Stockfeeds	Kinross Farm
LPC Trading	SOUTH AUSTRALIA	
Premier Stockfeeds Australia	Animal Innovations & Management	Pentagon Feeds
Pryde's	Big River Feeds	Performance Feeds
Rabar	Compass Feeds	Pristine Animal Nutrition
Rational Nutrition	F. Laucke	Propharma Australia
Ridley AgriProducts	Lienert Australia	Reid Stockfeeds
Rivalea	Meningie Fodder	Ridley AgriProducts
Riverina Australia	Pristine Animal Nutrition	Riverbank Stockfeeds
Robank Manufacturing	Ridley AgriProducts	Southern Stockfeeds
Weston Animal Nutrition	TASMANIA	
Young Stock Feeds	Pure Food Eggs	Unigrain
QUEENSLAND		
Advanced Rural	VICTORIA	
Alpair (McLean Farms)	Convector Grain	Advanced Feeds
Baiada	Crown Organics	Bio John
BEC Feed Solutions	Castlegate James	Gilmac
Bundaberg Molasses	Coprice Feeds	Ketridges
Champion Liquid Feeds	Champion Liquid Feeds	Milne AgriGroup
Cooloola Custom Stockfeed	D & M Stockfeeds	Nufeds Limited
Darwalla Milling Co	Daly's Feed & Fertilisers	Semini Custom Feeds
	Equine Nutrition Australia	Specialty Feeds
		Weston Animal Nutrition
		Whangagin Grains

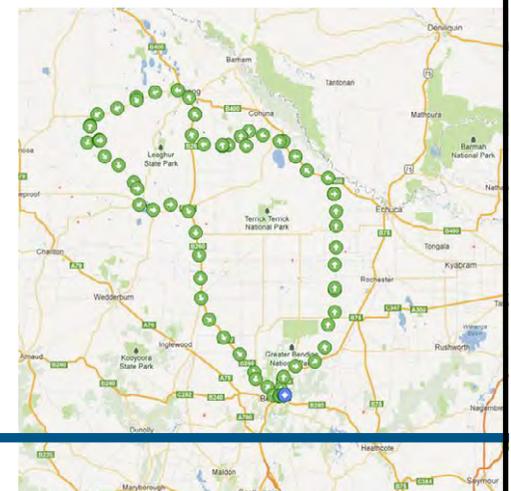
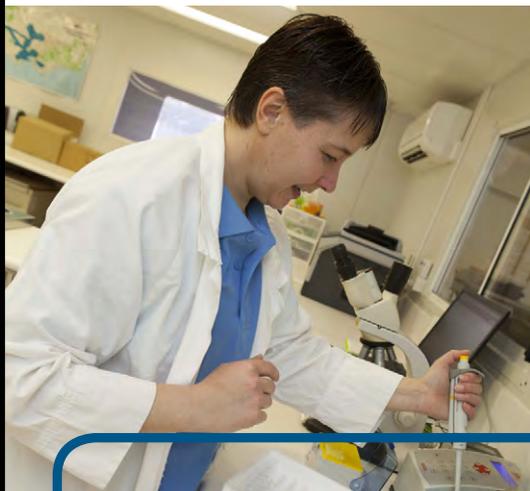
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Pork Storks Australia



PROUD OF OUR FARM GATE DELIVERY SYSTEMS



PROUD OF OUR TEAM'S COMMITMENT TO CUSTOMER SERVICE



PROUD OF OUR NEW TECHNOLOGIES

Pork Storks Australia is known for the processing and delivery of boar semen to piggeries around Australia. Pork Storks staff are proud of new technologies implemented to ensure farm gate delivery of semen in the best possible condition.

A recent initiative was to install temperature tracking and monitoring devices into the specialised delivery vans. Semen is stored in purpose-built temperature-controlled fridges within the vehicle, with real-time temperature updates reported back to a central office every 15 minutes. This system also tracks the path of the delivery vehicle by using GPS capabilities which maps the vehicle locations in real time. These Trace and Track systems provide extra assurance to customers that the semen arrives to the farm within the correct time and temperature specifications.

Pork Storks staff in Victoria and Queensland are proud that the use of new technologies can help them provide a high quality product to their customers.



Supported by Chris Richards & Associates