

# Alice Springs Rural Review

DEPARTMENT OF PRIMARY INDUSTRY AND RESOURCES



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## Editorial – December edition of the Alice Springs Rural Review

It is the last edition of the Alice Springs Rural Review in 2018, and what a year it has been! The Aussie Grass information shows that there has been substantial grass growth around Alice Springs and in the South East, unfortunately this hasn't spread to all areas in Central Australia yet. Hopefully there will be some significant weather systems extending down from the northern monsoons into the arid zone, to get enough growth for the year.

We recently held a focus group at Arid Zone Research Institute (AZRI) to ask some of you, our stakeholders, what you would like to see with regard to communication avenues. Most wanted the Rural Review to remain, so here it is again. Changes were suggested, and some of those are in this edition but I would like to know if you would like other changes. During the focus group the discussion went over channels like radio, podcasts, internet, social media, newspapers and magazines. How the world has changed over the past 10 – 15 years! For some of you internet was still barely accessible or slow, and for others, the challenges have been mainly conquered using satellite technology.

We had a wonderful celebration this November of the 50<sup>th</sup> birthday of the AZRI. A brainchild of Colonel Lionel Rose, the institute has done wonderful things for the Central Australian community over those years, with the defeat of Brucellosis and Tuberculosis in cattle, elimination of bovine pleuro-pneumonia and early trials on grapes and dates. A booklet outlining the history and current work at AZRI can be found on the [Department of Primary Industry and Resources website](http://www.dpir.nt.gov.au).

So all of us at the Department of Primary Industry and Resources wish you a Merry Christmas, and a prosperous 2019. Stay safe while travelling, and enjoy the company of your family and friends.

## What do we do at OMP?

Old Man Plains Research Station (OMP) is a sub-set of the old Owen Springs Station, just South of Alice Springs, which was returned to the Northern Territory Government in 2002. Old Man Plains was a relatively undeveloped 52,200 hectare (522 km<sup>2</sup>) parcel when it was given to the Department of Primary Industry and Resources (DPIR) to use for cattle research relevant to the dry, rangeland areas of sub-tropical Australia. Since DPIR has had the property, it has been divided into 14 paddocks and has approximately 900 Droughtmaster cattle.



The station manager is Bryan Gill, a long term employee who has worked at the department since 1981. Bryan is on leave for a few months while he recovers from an ankle operation, with Craig (Tad) Maxwell filling in. He is assisted by Sally Sims, with Dylan Williams and Roger Harvey helping out as Technical Officer and Apprentice for much of the year. The manager of the Arid Zone Research Institute farm, Debbie Roberts, and her Technical Officers, Simon Carr and Kylie Anderson, also help out when necessary. The livestock research team of Chris Materne, Jocelyn Coventry and Coral Allan use the farm as a “living laboratory” of better grazing practices for the Arid Zone.

The research and extension projects that are currently underway on Old Man Plains for the benefit of the industry are:

### **Quality graze: long term monitoring of rangeland vegetation under grazing**

This project aims to demonstrate that management of stock numbers at scientifically determined levels can optimise sustainable livestock production and resilience of the landscape to drought. This project has been going for eight years and produces a report every four years.

### **Pre-trucking feeding and meat quality**

Cattle achieving Meat Standards Australia (MSA) grading standards command a premium in Australian meat markets of around 50-70 cents per kilo. There is some information that suggests glycogen loading before trucking can improve compliance with MSA standards through reduction of “dark cutting”. Trials at OMP last season indicated no improvement when supplementary hay was used before trucking, but the results were confounded by rain and abundant grass growth at the time of the trial. This work will be repeated in 2019.

### **Calf loss monitoring**

Calf loss is a serious problem to many producers in Central Australia. Intensive monitoring of calf loss on OMP has shown that loss of calves around birth, and after birth, can be lowered with some cow and calf friendly practices to reduce stress and allow mothering up to occur without disturbance.

### **Collecting Estimated Breeding Value data**

Data, including DNA, is collected from all animals to predict estimated breeding values for breeding animals on Old Man Plains.

In the past, OMP has also been used for the “Producer Steer Challenge”, which was a competition where stations sent five to eight steers each to OMP and the weight gain of each animal was monitored over time. The station whose steers gained the most weight and had the best meat quality won a prize. What was discovered was that, in Central Australia, feed is more limiting than genetics, with all steers putting on similar amounts of weight.

## Satellite imagery for assessing pastures

The Department of Environment and Natural Resources has been using pasture data from Old Man Plains to develop a way to use satellites to monitor the amount of pasture on the ground.

## Sweet Spot

A Meat and Livestock Australia funded project will use data from OMP and other sites from across northern Australia to find the sweet spot of utilisation of pasture that optimises cattle reproduction and to model the economics of varying pasture utilisation to develop recommended levels for different regions across northern Australia.

## Inside Edge

Data from Old Man Plains pasture monitoring is used to improve the model (GRASP) for pasture growth in Central Australia. OMP data will be used to test the development of models and decision support tools to help adapt to an increasingly variable climate.

## New Principal Veterinary Officer

Dr Anthony Kettle (Tony) is a graduate of Massey University in New Zealand and had his own practice in Sydney for 10 years before moving to practice in Brunei for three years, and Oman for four years. He then spent more than 10 years in Dubai involved with the international movement of horses, quarantine and biosecurity in the United Arab Emirates, before joining Equine International Consultancy Free Zone Limited Liability Company in 2015 as the Executive Director.



For the last three years Tony has been advising governments on the conditions for international movement of horses, biosecurity and contingency planning. He is a consultant for the World Organization for Animal Health (OIE) and has served on multiple specialist ad hoc groups for the OIE including Glanders, Surra, Biosecurity and the High Health High Performance (HHP) protocols. Tony is a published author on Glanders (a disease closely related to Melioidosis seen commonly in northern Australia), and Shipping Fever in horses.

Tony is the Secretary of the International Movement of Horses Committee and a member of the Welfare Committee of the International Federation of Horse Racing Authorities in Paris. In addition to science and veterinary degrees, he holds a Master of Business Administration from Heriot-Watt University in Financial Risk Management.

While in Brunei, Tony wanted to buy property in Australia with a similar climate to Brunei and bought property in the Northern Territory (NT) more than 16 years ago. He visited every year before finally making the decision to commit full time to the NT. Tony welcomes the opportunity to contribute to biosecurity, animal health and welfare in the NT through the Department of Primary Industry and Resources.

## Meg Humphrys – new extension officer for the livestock industry in Central Australia



Meg Humphrys will be starting the new year at AZRI as the new Livestock Extension Officer. She replaces Sally Leigo, who started in that position over a decade ago and has moved on to Darwin as the Project Officer for the Cooperative Research Centre for Northern Australia.

Meg is currently a Monitoring Officer at Walhallow Station in the Barkly region but has had various jobs with the Northern Territory Government as a Ranger at Finkel National Park, a Rangelands Monitoring Officer and District Weeds Officer at Tennant Creek.

National Park, a Rangelands Monitoring Officer and District Weeds Officer at Tennant Creek.

Not a stranger to stations, she has also worked on Maryvale, Bushy Park and Arapunya Stations in the NT as a shop assistant, station hand and Governess / Nanny.

Meg comes well educated, with a Bachelor of Applied Science (Environmental Science and Management) from Charles Sturt University and a Certificate IV in Conservation and Land Management (NSW). Meg is also qualified to work a chainsaw!

Meg is looking forward to implementing a program of extension activities to directly benefit Central Australian stations. Please look out for Meg in 2019.

## Danielle takes the lead in Agri-tech education in Central Australia

Danielle Brown, Vocational Educational Trainer with the Department of Education, has won a scholarship to develop her leadership in Agri-Tech in regional Australia. The scholarship covers a twelve month program that includes a two-day face-to-face symposium in Brisbane with Australia's leading Agri-tech researchers and professionals, and the development of a teaching module relevant to her work in Central Australia. It was open to female trainers or teachers across Australia who work in rural education. Danielle was selected as one of 15 successful scholarship recipients from 68 applicants around Australia.



The aim of the program is to boost the skills of the agricultural education sector to inspire girls to get involved in Agri-tech careers. Agriculture industries sadly lag behind other industries in female participation rates, with only 30% of agricultural employees female, compared to 50% for all other industries.

The scholarship program is managed by Central Queensland University and is funded by the Federal Department of Industry, Innovation and Science. The Department of Primary Industry and Resources (DPIR) also supports the scholarship program, and DPIR Director Plant Industries Dr Mila Bristow will be one of the presenters at the Brisbane symposium.

“DPIR is keen to generate stronger participation from women to lead the future of agri-food industries in the Territory,” Dr Bristow said.

“I’m very excited to see Danielle, as one of our two NT teachers winning this scholarship, join the national project and be trained to engage and teach our next generation of ‘Women in Agri-tech’. They will join teachers from around Australia to be introduced to learning resources in agriculture and technology. I’m confident our NT teachers will return to their classrooms inspired.”

Danielle trains 15-18 year olds from Yirara and Centralian Colleges towards their Certificate I in Agrifood Operations or Certificate II in Rural Operations at the AZRI horticultural block. Danielle has a passion for all things rural, having grown up in the rural area around Darwin, and is a graduate of the rural course at Taminmin College at Humpty Doo. She is particularly interested in the technology surrounding cattle identification, like the National Livestock Identification System for cattle tracking and remote management of stock watering using telemetry – both extremely important to Central Australian rangeland pastoral systems. It will take around 12 months to develop the module for her students, and Danielle is hoping it will be rolled out to Certificate III Rural Operations students at AZRI in 2020.

The NT will also be represented by Natasha Burrows, Agriculture teacher at Taminmin College, who will bring her learnings back to her students to increase the participation of women and girls in STEM and entrepreneurship through an Agri-food context.

## Remote communities get connected

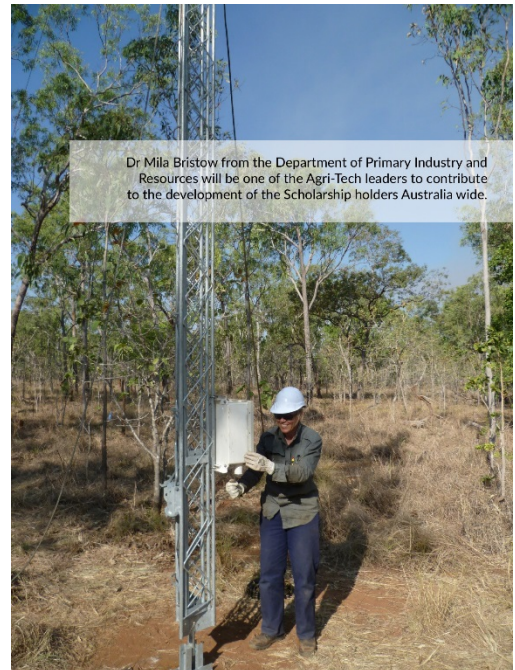
More Territorians in remote areas now have access to mobile and broadband services thanks to the NT Government/Telstra Remote Telecommunications Co-Investment Program.

The Program which began in 2015 has seen 14 remote communities receive mobile and/or broadband connectivity, most recently Mt Liebig, Kintore and Yarralin.

The services at Mt Liebig have been connected through a joint venture between the NTG/Telstra Co-investment Program and the Australian Government's Mobile Black Spot Program (MBSP).

The next communities scheduled to receive services under the Co-investment Program are Atitjere, Alpurrulam and Belyuen and are expected to be completed by mid-2019.

For more information read the [Northern Territory Government's Media Release](#)



## Central Australia hosts entomological conference



Professional entomologists from across Australia swarmed into Alice Springs from 23-26 September for the Australian Entomological Society 49th AGM and Scientific Conference.

The theme of this year's conference was 'insects as the centre of our world', so it was fitting to have this year's conference held in almost precisely the geographical centre of Australia.

Chaired by the Department of Primary Industry and Resources' (DPIR) own Dr Brian Thistleton and Dr Mary Finlay-Doney, the event was by all accounts a huge success with more than 120 people attending the three-day conference.

The AZRI social club ran the bar for the Sunday evening welcome function at the beautiful Simpson Gap, where a drumming performance by Drum Atweme, a group of local Aboriginal girls, was a highlight amongst attendees.

The conference presentation topics were diverse and included insect behaviour, conservation, diagnostics, cultural and ecological significance of native species, physiology and adaptation biosecurity, and pest management and control.

For DPIR entomologists, the focus of much of their work is studying and identifying pest insects present in Australia that either present a biosecurity threat, or cause crop loss or a reduction in quality in the agricultural sector.

This was reflected in the presentation delivered by DPIR staff, which included:

- Mary Finlay-Doney – the buzz about stingless bees in the Northern Territory: ecology and pollination potential (apparently stingless bees are quite lazy and don't get up early enough for work – who knew?!)
- Mary Finlay-Doney – improving our understanding of Australasian Epilachnini (Coleoptera: Coccinellidae): taxonomy and distribution (Australasian Epilachnini are commonly known as ladybeetles)
- Thilini Ekanayake - poster presentation on the effect of male body size, age and premating experience on mating success in the Queensland fruit fly (*Bactrocera tryoni*).
- Brian Thistleton – integrated pest management technology in Northern Territory vegetable crops and extending the technology through demonstration plots
- Vicki Simlesa – the response to Asian Honey Bee incursions (*Apis cerana*) in the Northern Territory.

Executive Director Biosecurity and Animal Welfare Sarah Corcoran also delivered the keynote address on Wednesday 26 September, outlining the importance of plant biosecurity for the Territory.

Congratulations to Brian and Mary for their involvement in delivering such a successful conference, and helping showcase Alice Springs to Australia's entomologists.

DPIR was a proud sponsor of the event.



*AZRI social club members ran the bar at Simpsons Gap.*

## **Annual Symposium Emergency Animal Disease (EAD) highlights report**

The 5<sup>th</sup> Annual Emergency Animal Disease Symposium was held at the Australian Animal Health Laboratory in Geelong on 17 and 18 October 2018 with more than 100 attendees over the two days. The following are a few highlights from the symposium, which was important not only for updating participants in the latest trends in EAD research, but also for the face-to-face networking opportunity for EAD prevention between colleagues and livestock industry participants.

Dr Debbie Eagles highlighted recent trends in vector borne diseases and reminded participants that global warming was likely to have a major effect on vector borne diseases such as Bluetongue. The maintenance of the sentinel herd programs and vector collection in northern Australia is an essential component of our early warning system for transboundary disease incursions.

Dr Cameron Stewart gave a very informative presentation on emerging approaches to disease diagnosis. Recent work on microRNAs in Hendra and mastitis in cattle had produced encouraging results in the early detection of Hendra and mastitis in cattle that could be made before the onset of clinical signs.

Dr Jeff Hammond updated the symposium participants on Foot and Mouth Disease. There was marked long distance spread of the virus, especially from India, with the movement of people as a significant feature. This eastern spread of the virus from India was perceived as a major threat to Australia and constant vigilance was necessary to prevent an incursion of this virus.

Dr David Williams described the situation with African Swine Fever (ASF), which is a serious threat to Australia's pig industry especially if introduced into the estimated 20 million feral pigs in Australia. The southward movement of ASF from China through direct and indirect transmission by people was a major concern. NT Livestock Biosecurity efforts have focused on ASF awareness in 2018.

## Bucks for Brains

Do you have cattle that are displaying any of the following signs?

- changes in behaviour and neurological signs
- excessive licking of the nose and flanks
- poor coordination (circling, staggering and falling)
- muscle tremors
- abnormal posture (abnormal ear position and abnormal head carriage)
- difficulty in rising (downer)
- paralysis
- excitability
- increased or decreased sensitivity to sound, pain, heat, cold or touch.

If you do, you may be eligible for an incentive payment under the 'Bucks for Brains' initiative.

Bucks for Brains is an initiative of the National Transmissible Spongiform Encephalopathies Surveillance Project (NTSESP) run through Animal Health Australia. Transmissible spongiform encephalopathies are rare, fatal diseases that cause gradual deterioration in the brain and other central nervous system tissues. Bovine spongiform encephalopathy (BSE), commonly known as 'Mad Cow' disease is the form found in cattle. Scrapie is the form found in sheep.

The NTSESP helps Australia meet guidelines set by the World Organisation for Animal Health to demonstrate Australia's freedom from BSE and scrapie. To ensure that these guidelines are met, Australia must continue to collect, examine and test eligible cattle and sheep samples.

The clinical signs of BSE can be common to many other diseases, which is why specific testing is required.

The program provides payments to producers who submit eligible cattle brains for national testing. Producers receive \$300 per eligible cattle submission, for a maximum of two animals per veterinary investigation.

Eligible cattle need to meet the following criteria:

- be older than 30 months
- be less than nine years
- display signs consistent with BSE (listed above).

Please contact your Regional Field Veterinary Officer or Livestock Biosecurity Officer if you have cattle displaying any of the signs.

Source: Animal Health Australia 2016, *Bucks for Brains*, Animal Health Australia, accessed 20 November 2018, < [https://www.animalhealthaustralia.com.au/wp-content/uploads/2015/11/Bucks-for-Brains\\_Jun16\\_WEB.pdf](https://www.animalhealthaustralia.com.au/wp-content/uploads/2015/11/Bucks-for-Brains_Jun16_WEB.pdf)>



## AZRI knocks up half a century

On Friday 16 November, the Arid Zone Research Institute (AZRI) celebrated 50 years of research, development and extension with a function hosted on-site at the facility, seven kilometres south of Alice Springs.

Over 60 people including Chief Executive Alister Trier, past and present staff and local business owners attended the celebrations. Included amongst them were people who had been present at the official opening of the facility in 1967.

The party doubled as a celebration for staff returning to the site after extensive upgrade works throughout 2018, including asbestos removal, energy efficient air conditioning installation and carpet replacement.

Alister presented certificates to the following people who assisted in the AZRI refurbishment project management:

- Susan Turner
- Michelle Lord
- Krystine Paice-Brown
- Ratheesh Kumar
- Charlotte Fisher
- Zachary Nethery
- Darren Willis
- Michael Myhal
- Gavin McGargill
- Tim Brand
- Libby Taylor

Attendees were treated to an afternoon of jazz, with the St Philips Jazz Band taking to the stage. Kungkas Can Cook provided mouth-watering nibbles to get the party started, while Sally Simms prepared roast beef for dinner.

An eight-page information booklet covering the history of the institute and current operations was released as part of the celebrations. The booklet was the culmination of extensive research and design by Sarah Tsai, Research Horticulturalist; Siobhan Tootell, Communications Officer; and Megan Nielsen, Publications Officer.

A great number of staff assisted with the event to ensure all administration, set-up, cooking, cleaning and running of the bar went smoothly.

Many thanks to Susan Turner, Bryan Gill, Michelle Lord, Sarah Tsai, Siobhan Tootell, Glen Oliver and team, Roger Harvey, Dylan Williams, Kylie Anderson, Simon Carr and Debbie Roberts and all additional staff who helped to make the afternoon a resounding success.



For more information on AZRI's 50 years, please see the [media release](#)<sup>1</sup>.

You can download the information booklet at the [DPIR website](#)<sup>2</sup>.



*Left to right: Guests mingle at the celebrations (left), The St Philips Jazz Band trumpeter cranks a tune (middle), Chief Executive Alister Trier presents a certificate to Susan Turner, Executive Officer (right)*

## Profitable Grazing Systems

Over the years, Meat and Livestock Australia (MLA) and other organisations have run numerous field days, workshops and other training events to share information, but many producers have indicated that they would like more support to build their skills and implement what they've learnt into their business. The new 'Profitable Grazing Systems' initiative from MLA is designed to provide that.

The aim of the program is to develop tailored short courses, delivered over six to 18 months, which allow you to develop and practice your skills with small groups of like-minded producers. The course will be delivered by an accredited coach or facilitator and assisted by specialist technicians where relevant.

Delivery is flexible and may include a mix of online webinars, teleconferences, workshops and one-on-one property visits. There are a number of existing courses already available across the key topic areas of nutrition, breeding, grazing land management, people and business. These can be tailored to meet the needs of a group in the NT or a completely new, unique course can be developed to provide the specific skills you need.

Subsidies are available to help cover the cost of the course.

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<sup>1</sup> <http://mediareleases.nt.gov.au/mediaRelease/28395>

<sup>2</sup> [https://dpir.nt.gov.au/\\_data/assets/pdf\\_file/0008/597743/azri-info-booklet.pdf](https://dpir.nt.gov.au/_data/assets/pdf_file/0008/597743/azri-info-booklet.pdf)

## Three good reasons to get involved in Profitable Grazing Systems:



1. It takes a whole-of-farm business approach to improve business performance and drive profit.



2. It customises and tailors industry research findings and management options to your local environment



3. You work with small groups of like-minded producers with an experienced coach to support you.

### What participating producers say

130 producers have already participated in Profitable Grazing Systems and say the benefits include:

- learning new skills and applying them to their individual farming systems
- seeing and hearing what other producers are doing
- making decisions based on tangible numbers.



**Stuart and Anja Croft** Heywood, Victoria

One of the top learnings from being involved in the program was the identification of loss drivers. We discovered our cattle enterprise is not economically viable because it's not the main focus of the business, but still requires infrastructure and supplementary feeding in hard times



**Sam and Cassie Bassingthwaighte**, Dalby Queensland

One of the key learnings from the program was the importance of pasture identification to determine the percentage of 3P (palatable, productive, perennial) grasses. As a result of the program, we identified areas of non-palatable grasses, and destocked and strategically burned these areas to create a range of palatable grasses to encourage even grazing

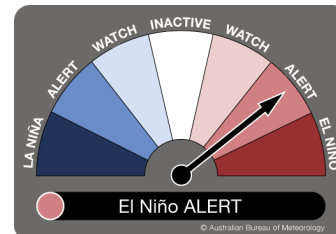


# Seasonal Update - December 2018

Chris Materne, Pastoral Production, Alice Springs

## El Niño ALERT continues as positive Indian Ocean Dipole (IOD) weakens

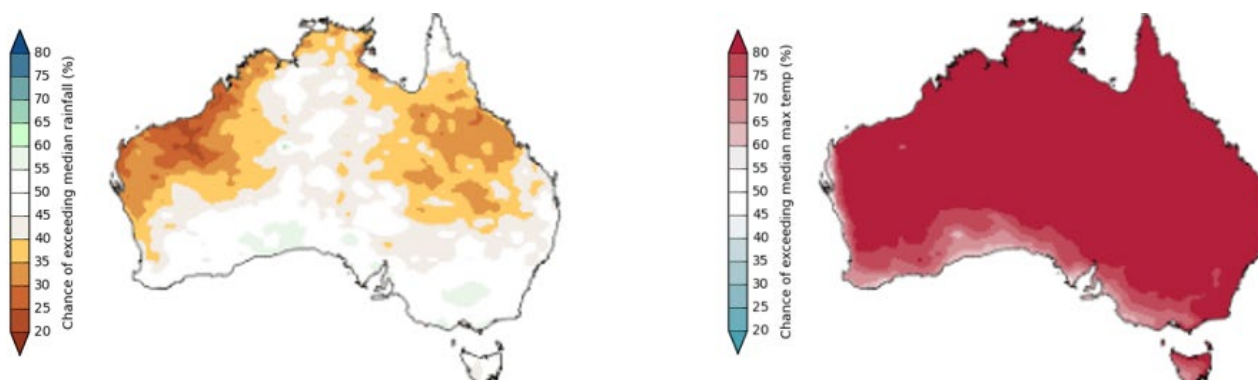
The tropical Pacific Ocean remains ENSO-neutral, despite some indicators reaching El Niño levels. Sea surface temperatures in the tropical Pacific Ocean have now exceeded El Niño thresholds for more than a month. However atmospheric indicators—such as trade winds, cloud patterns, and the Southern Oscillation Index (SOI)—have not reached El Niño levels. This indicates that the tropical ocean and atmosphere are not reinforcing each other and remain 'uncoupled'. This coupling is required to establish and sustain any ENSO event, and is what drives widespread Australian and global impacts.



### The outlook for December 2018 to February 2019 indicates that:

- Average to **Drier** than average conditions are generally expected across much of the NT.
- **Wetter** than average conditions are more likely for the southern NT in December.
- **Warmer** than average days and nights are more likely across the entire NT.

For further information go to the [Bureau of Meteorology website](http://www.bom.gov.au)<sup>3</sup>



Chance of above the median rainfall (October to December 2018) (Left), Chance of above the median maximum temperature. (October to December 2018) (Right)

<sup>3</sup> <http://www.bom.gov.au/climate/outlooks/>

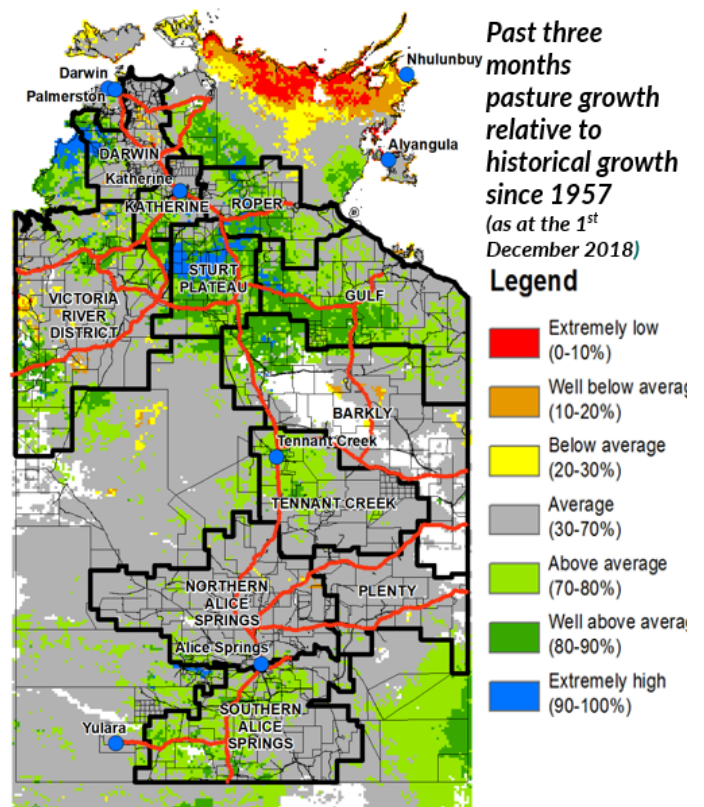
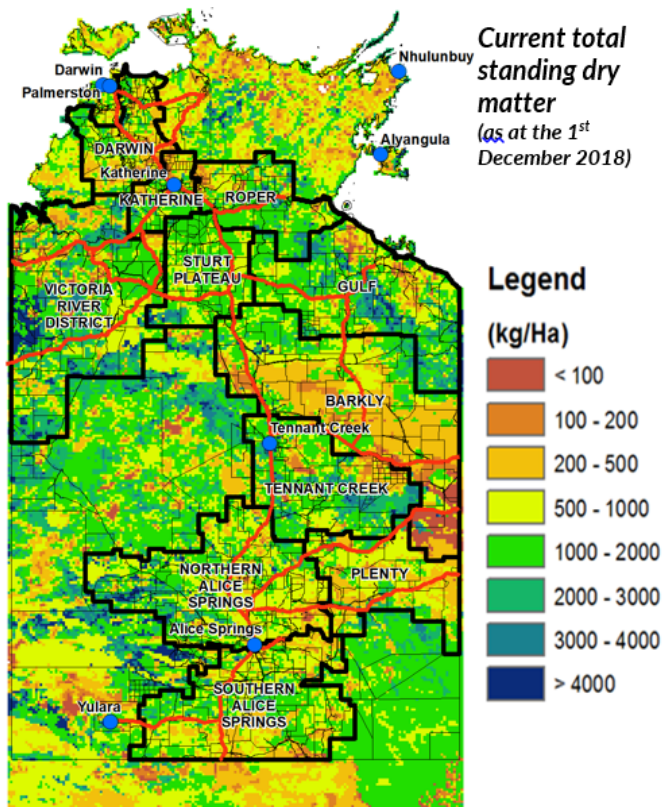
Northern Territory Pastoral Districts					
Indicator	Southern Alice Springs	Plenty	Northern Alice Springs	Tennant Creek	Comments
2018-19 Total pasture growth	↔	↔	↔	↔	Arrows indicate trend compared to the long-term median.
Current estimated standing biomass	↓	↓	↓	↓	Arrows indicated trend since previous quarter.
Current fire risk	↔	↓	↓	↔	Arrows indicate the trend since the previous quarter.
Current seasonal outlook	↑	↓	↓	↓	Arrows indicate the trend since previous quarter and consider forecasted model predictions.

Legend: ↑ = Increasing Trend  
 ↓ = Decreasing Trend  
 ↔ = Steady

Green = low risk  
 Orange = watch  
 Red = high risk

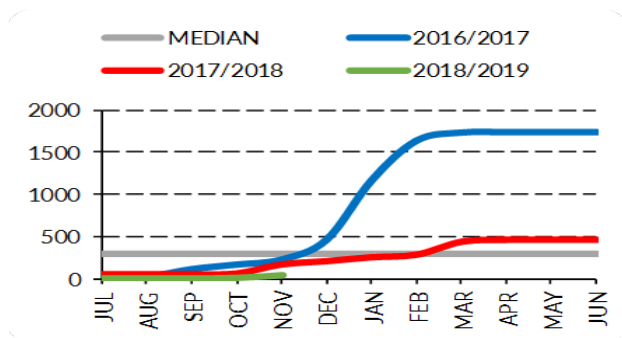
## AussieGRASS - December 2018

Chris Materne, Pastoral Production, Alice Springs

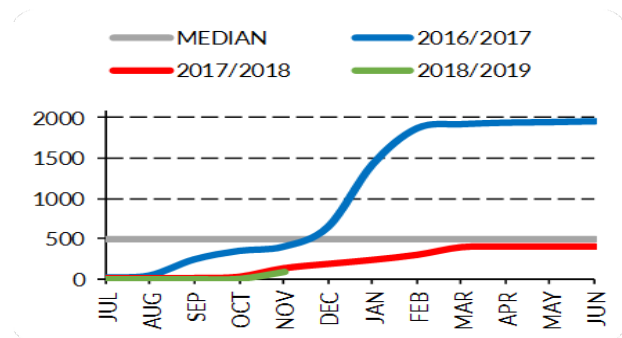


## Median district pasture growth (kg/ha) – running total

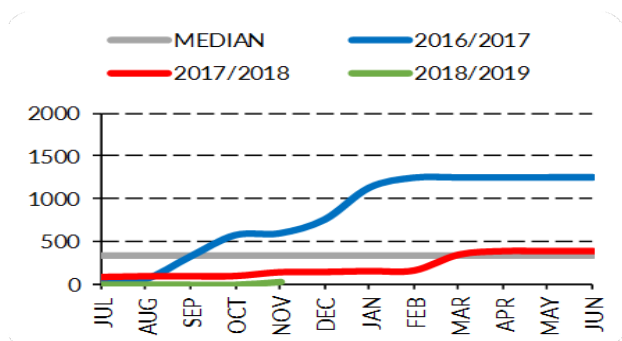
Tennant Creek district



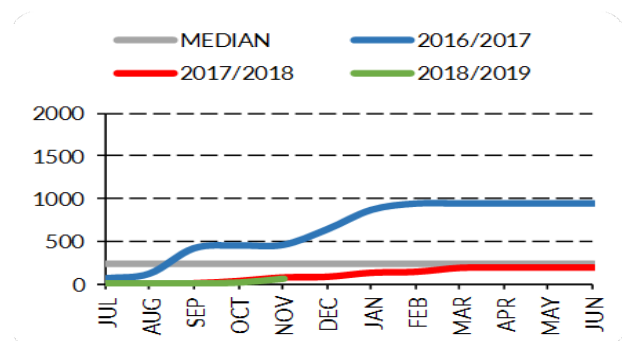
Northern Alice Springs district



Plenty district



Southern Alice Springs district



If you would like further information, please contact Chris on 895 18111



## Live Exports via Darwin Port – OCTOBER 2018

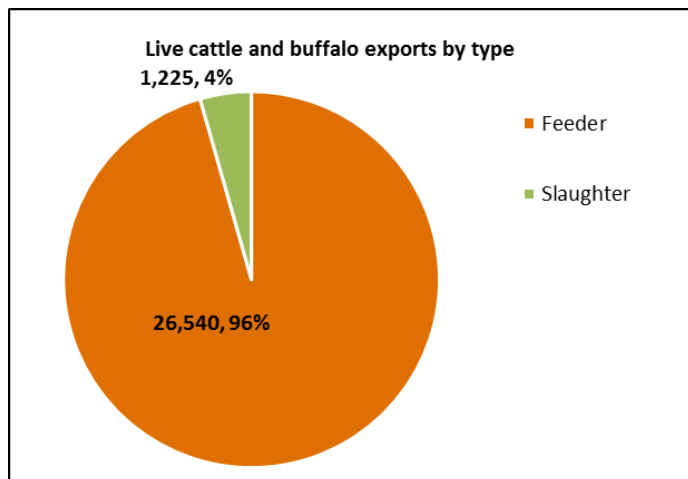
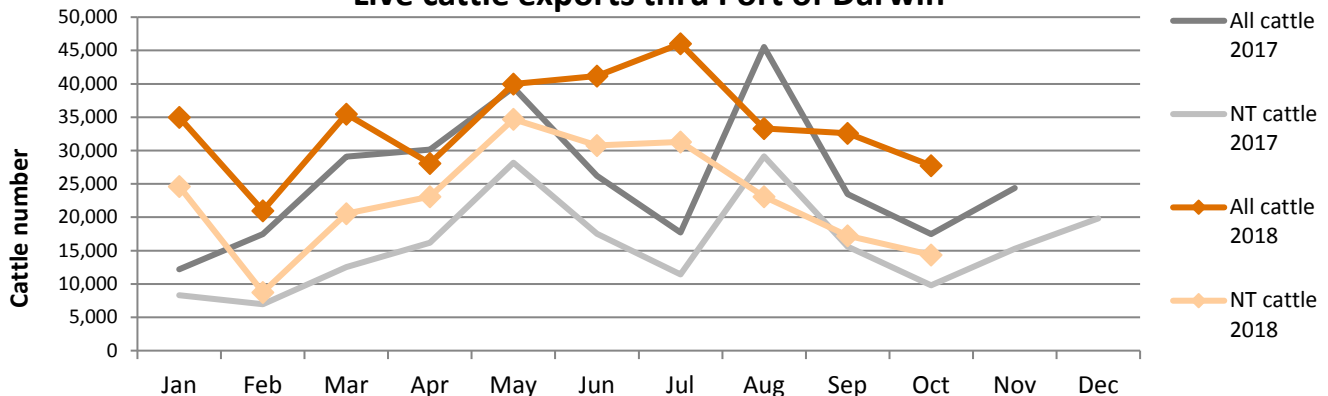
Please note: figures are for stock exported through the Port of Darwin only; some NT stock are exported through interstate ports

Please note: the NT Cattle figures here have been rounded respectively and may not tally to totals.

The figures listed below are correct as at **October 31 2018** and are subject to change as further data becomes available.

Destination	Export of ALL CATTLE (including interstate)							Export of NT CATTLE (estimate only)						
	2016	2017	Last year to 31/10/17	YTD to 31/10/18	Oct	Last month	Difference	2016	2017	Last year to 31/10/17	YTD to 31/10/18	Oct	Last month	Difference
Brunei	3,379	3,872	2,972	3,653	0	365	-365	2,314	2,423	1,859	2,292	0	253	-253
Indonesia	305,761	245,544	208,342	271,110	25,211	30,147	-4,936	192,957	150,489	124,313	179,703	13,034	20,924	-7,890
Philippines	7,598	0	0	10,482	1,404	0	1,404	5,179	0	0	7,262	726	0	726
Sabah	0	2,640	1,500	0	0	0	0	0	1,680	967	0	0	0	0
Sarawak	1,200	2,743	2,743	1,110	0	0	0	843	1,594	1,594	963	0	0	0
Malaysia	10,979	13,257	10,934	11,813	0	0	0	7,476	8,109	6,655	7,848	0	0	0
Vietnam	39,107	39,989	31,513	41,408	1,150	2,782	-1,632	24,783	25,884	19,716	29,739	595	1,931	-1,336
Egypt	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thailand	1,461	800	800	800	0	0	0	1,023	535	535	658	0	0	0
Cambodia	2,766	0	0	0	0	0	0	1,936	0	0	0	0	0	0
<b>TOTAL</b>	<b>372,251</b>	<b>308,845</b>	<b>258,804</b>	<b>340,376</b>	<b>27,765</b>	<b>33,294</b>	<b>-5,529</b>	<b>236,511</b>	<b>190,715</b>	<b>145,858</b>	<b>228,466</b>	<b>14,355</b>	<b>23,108</b>	<b>-8,754</b>

## Live cattle exports thru Port of Darwin



## OTHER LIVESTOCK

Destination	Buffalo		Goat		Camel	
	YTD	Oct	YTD	Oct	YTD	Oct
Brunei	417	0	0	0	0	0
Indonesia	2,884	0	0	0	0	0
Philippines	0	0	0	0	0	0
Sabah	0	0	0	0	0	0
Sarawak	0	0	0	0	0	0
Malaysia	1,465	0	0	0	0	0
Vietnam	1,841	0	0	0	0	0
Egypt	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Cambodia	0	0	0	0	0	0
<b>TOTAL</b>	<b>6,607</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## LIVESTOCK MOVEMENT STATISTICS

Reports for livestock movements from NT to Interstate, within NT and Interstate to NT are updated biannually - see

[www.dpir.nt.gov.au/primary-industry/primary-industry-strategies-projects-and-research/livestock-movement-statistics](http://www.dpir.nt.gov.au/primary-industry/primary-industry-strategies-projects-and-research/livestock-movement-statistics)

Total of ALL CATTLE through Port of Darwin							Total of NT CATTLE through Port of Darwin						
2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
269,617	246,990	359,616	493,958	510,860	372,251	308,845	253,797	234,249	308,784	324,477	295,738	236,511	190,715

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## Over the hooks indicator – cattle

Market information provided by MLA's National Livestock Reporting Service

South Australia

report date; 14 Dec 2018

Grade	Weight Range (cwt kg)	Dentition	Muscle Score	Fat (mm)	Average (c/kg cwt)	Trend	
<b>Cows</b>	180-200	0-8 (C)	A-D	13-22	346	-10	
		0-8 (C)	A-D	3-12	351	-10	
		0-8 (C)	A-E	0-32	336	-10	
	200-220	0-8 (C)	A-D	13-22	351	-10	
		0-8 (C)	A-D	3-12	356	-10	
		0-8 (C)	A-E	0-32	341	-10	
	220-240	0-8 (C)	A-D	13-22	364	-10	
		0-8 (C)	A-D	3-12	369	-10	
		0-8 (C)	A-E	0-32	354	-10	
	240-260	0-8 (C)	A-D	13-22	375	-10	
		0-8 (C)	A-D	3-12	380	-10	
		0-8 (C)	A-E	0-32	365	-10	
	260-280	0-8 (C)	A-D	13-22	382	-10	
		0-8 (C)	A-D	3-12	387	-10	
		0-8 (C)	A-E	0-32	372	-10	
	280-300	0-8 (C)	A-D	13-22	387	-10	
		0-8 (C)	A-D	3-12	392	-10	
		0-8 (C)	A-E	0-32	377	-10	
	300-400	0-8 (C)	A-D	13-22	390	-10	
		0-8 (C)	A-D	3-12	395	-10	
		0-8 (C)	A-E	0-32	380	-10	
	<b>Bulls</b>	260-280	0-8 (B)	A-E	0-32	363	-5
		280-300	0-8 (B)	A-E	0-32	365	-5
		300-320	0-8 (B)	A-E	0-32	370	-5
320-440		0-8 (B)	A-E	0-32	370	-5	

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