Improving the use of high quality forages in East Queensland

IN THIS ISSUE
Editorial
Non-herbicide GRT on farm demonstration
New EDGE packages
Our first GBMP re-accreditation

Change hats this summer!

Change things up by enrolling in 2018 at Central Queensland’s most successful school.

- Get a jump on high school – start in Year 6!
- Be better prepared for ATAR changes!
- Thrive at Queensland’s top boarding school!

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Welcome to CQ Beef 30

Welcome to the spring issue of the CQ BEEF feature for 2017.

Well hello wet season, let’s hope it’s a good one!

When you brand your calves this summer remember the correct formulae for calculating a breeding percentage is:

Breeding % = Number of calves branded in 365 days x 100

Number of cows mated in last year’s 365 days

Also some important questions to ask at branding time are: How many conceptions did you loose from your pregnancy testing to branding? What was the pattern of conception like, when did the calves come and how many calves dropped after Christmas this year? Are the cows in a body condition score of three at calving?

Our central Queensland beef extension team includes:

Mick Sullivan, Rockhampton 4643 2623
Matt Brown, Rockhampton 4643 2611
Kylie Hopkins, Rockhampton 4643 2615
Jim Fletcher, Mackay 4967 0732
Carly Johnstone, Biloela 4808 6887
Byrony Daniels, Emerald 4991 0867

The central Queensland FutureBeef team would like to take this opportunity to wish all our readers a very Merry Christmas and a good prosperous new year.

Grazing Futures is a new four-year project working with industry partners to promote a resilient grazing industry across western Queensland.

The Grazing Futures project brings new opportunities and new faces to the west. These new team members bring a wealth of knowledge and experience around animal production, grazing land management and business planning.

Andrea Wiles at Charleville, Jane Tinkn tell at Longreach and Robert Caird at Meereeba have joined the Department of Agriculture and Fisheries (DAF) to help bolster local extension teams that serve western Queensland grazing businesses.

Andrea is a vet by trade and has worked in New South Wales, Queensland and Northern Territory where she developed her understanding of common animal health issues facing producers and their impact on production.

Jane is a rangelands enthusiast, having spent the past 20 years in a variety of roles within grazing businesses or supporting them via community or government agencies.

Rob has a strong finance background and was an agriservice consultant working with beef producers in Far North Queensland prior to his new role with the Grazing Futures project. Rob has a comprehensive understanding of key production, profitability and sustainability drivers of the North Queensland beef industry.

Grazing Futures is managed by DAF with a strong collaborative approach with partners. Many activities are led by partners such as AgForce or NRM groups. For example in the central west:

- AgForce and DAF collaborated to bring mapping workshops to the region
- Desert Channels Queensland and DAF, along with graziers, developed a grazing and weed management planning tool and workshops and
- Rural Financial Counsellors worked with producers to build financial and business knowledge and provided relevant training, such as using Excel and financial software.

The Grazing Futures project has been made possible, thanks to funding from the Queensland Government’s Drought and Climate Adaptation Program (DCAP) and a partnership with Grazing BMP.

Grazing Futures will deliver a range of research, development and extension projects, improve seasonal forecasting and provide tools and systems that will support producers in their decision-making.

Keep an eye out for Grazing Futures events in your local area or call a team member if you have any ideas for resilience building activities.

To find out more about DCAP and Grazing Futures visit www.daf.qld.gov.au or www.longpaddock.qld.gov.au or call a DAF extension officer on the details below.

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Ian Houston 07 4536 8326

What is the potential for non-herbicide control for Giant Rats Tail Grass and Parramatta Grass?

Local Governments are looking for a toolbox of options for the control of Giant Rats Grass and Parramatta Grass.

More than maintenance levels of fertiliser can be profitable and help control these weeds.

At two sites in Coastal Central Queensland, known profitable fertiliser levels have made Giant Rats Tail Grass and Parramatta grass palatable to livestock.

Local Government pest officers in coastal Central Queensland spent a lot time explaining and demonstrating the herbicide options for the control of Giant Rats Tail and Parramatta Grass to landowners.

Both Gladstone and Livingstone Regional Councils were happy to financially support the demonstration sites at the fertilised site, a definite decrease in the presence of Giant Rats Tail Grass was also evident.

At the Byfield site in the first year, a significant increase in the grazing legumes made a difference to the palatability of the mixed sward of grasses that included Parramatta Grass. In the second year, at Miriam Vale with another application of the same fertiliser, the amount of organic matter produced and the increase in palatability of the Giant Rats Tail Grass made it impossible for any weed seedlings to establish.

At Byfield after another application of fertiliser the highly competitive grass, humidicoli, became 95 per cent of the pasture present even while grazed and after a cyclone.

After two years of fertilising three things are obvious:

- you can improve the management of sporobolous grasses using your livestock
- you can dramatically change the amount of time you spend spraying established weed sites
- at the same time you can improve the performance of your livestock by either generating extra income, decreasing costs of herbicides and purchased feed, and reducing the demands on your time.

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Grazing Futures
Re-accreditation: a Grazing Best Management Practice (BMP) first

**Key Points**

- Grazing BMP is a useful tool that allows landholders to evaluate how they are tracking against industry benchmarks.
- Becoming Grazing BMP accredited allows landholders to quantify on-property practices and demonstrate the standard at which they operate.
- There is support available to landholders through the entire Grazing BMP process.
- Grazing BMP is a way to tell the positive story of today’s grazing industry.

Just two years before the infamous cattle crash in 1975, the Mayne family purchased Penrose property, a 3726ha Brigalow block north-east of Rolleston. The Mayne family have been at the forefront of practice change since the beginning—constantly seeking new and improved ways of managing their evolving business. Arrawarra was purchased in 2003 and is utilised to help adjust stock numbers to match stocking rate and carrying capacity.

Jack and Liz Mayne became involved in Grazing BMP in 2010 as pilot producers for the program. Over seven years of involvement, Leucaena and rotational grazing have been introduced at Penrose to improve the productivity of the property.

“BMP was a tool we used to evaluate where we sat in relation to the rest of the grazing industry,” Mr Mayne explained.

“Grazing BMP has made us realise that we were ticking most of the boxes but there were also a couple of areas in our business that we could work on to turn things up a notch.”

The decision was made in 2013 to become Grazing BMP accredited. Mr Mayne said this was to ensure their on-property practices met industry standards across all areas of the business. The family worked closely with Fitzroy Basin Association (FBA), to prepare for their first BMP audit.

“This support included on-property visits to help us implement practices such as forage budgeting, mapping and monitoring.”

One of the first businesses to renew their Grazing BMP accreditation, Penrose demonstrates an ongoing commitment to the program and are identifying practices to improve the long term profitability of their enterprise.

“It is nice to be recognised as first class custodians of our land. It’s also nice to know we are doing our bit to help the grazing industry’s perception in the broader community.”

Recently, an adjoining grazing lease opportunity arose, Jack and Liz Mayne have used Grazing BMP as a tool to ensure involved parties operate at the same high standard maintained by the Mayne family.

“BMP means stakeholders can be reassured that the reactive element of our industry has been noted and reduced,” Mr Mayne said.

“Grazing BMP helps to underpin product integrity and businesses can confidently and proudly promote what they are doing. We need to be mindful of where we want the grazing industry to stand on the national stage. Becoming Grazing BMP accredited will definitely help us tell our story in the future.”

**Penrose**

- **Location:** 63km north-east of Rolleston
- **Purchased:** 1973
- **Managers:** Baden and Sheena Crittle
- **Area:** 3726ha
- **Rainfall:** 550mm/year
- **Country:** Brigalow-Blackbutt with Buffel, Blue, Green Panic and Barnbatsi Grasses
- **Enterprises:** Wagyu breeding and backgrounding operation including F1 to F4 cross breed Wagyu, purebred and fullblood production.

**Arrawarra**

- **Location:** Between Emerald and Comet
- **Purchased:** 2003
- **Area:** 998ha
- **Rainfall:** 550mm/year
- **Country:** Brigalow-Blackbutt with Buffel, Secca Blue and Spear Grasses
- **Enterprises:** Backgrounding and trading operation for dry cattle. Also taking on occasional agistment cattle in order to match stocking rate with carrying capacity of the country.

If you are interested in completing Grazing BMP or becoming accredited please contact Katie Crozier. Contact details below.

**Katie Crozier**

Fitzroy Grazing BMP coordinator

Fitzroy Basin Association (FBA)

Katie.Crozier@fba.org.au

0408 874 042

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Greg Cross 0400 287 744
Identifying the best way to use high quality forages in CQ

Key points
- Grazing steers on leucaena-grass pastures from weaning until they reached feed-on weight was found to be the most profitable growth path for steers in central Queensland.
- The seven most profitable growth paths all incorporated leucaena within the growth path of steers.
- Incorporation of forage oats in the growth path of steers always reduced business profitability compared to alternative buffel or leucaena-grass growth paths.
- There was no direct relationship between the quantity of beef or weaners produced by a growth path and its profitability.

Beef producers generally have only a limited area of suitable soil for growing high quality forages such as perennial legume-grass pastures or annual forage crops.

Producers need to make choices about how best to allocate high quality forages amongst different classes of cattle in their herd. This involves considering the resultant effect of the high quality forage on the cattle growth path, age and time to reach target market weight, and on enterprise profitability.

The results of these analyses should be considered as examples and a way of understanding the factors that are important in the decision-making process. However, the relative and absolute value of alternative investment strategies varies significantly between beef enterprises and analyses specific to each individual business should be conducted.

The Department of Agriculture and Fisheries adheres to the Leucaena Network Code of Practice in its research and demonstration trials, and the promotion of responsible, sustainable and productive development of Leucaena/grass pastures in its extension activities.

Maree Bowen Research scientist, Department of Agriculture and Fisheries Rockhampton 07 4843 2607
Fred Chudleigh Economist, Department of Agriculture and Fisheries Toowoomba 07 4529 4186

The recent change in the price differential between younger and older steers has largely not been included in this analysis but it still shows that shifting to a younger age of turnover is likely to be more profitable when steer nutrition is significantly improved from weaning. The underpinning reason is the inclusion in the analysis of an accurate method of measuring the relative intake of forage at different ages and in different seasons by steers to gain weight.

When this is balanced against the costs of changing the growth path and the herd structure, the consistent message seems to be that profitable investments in high quality forage in CQ may involve the production of significantly younger steers.

It was also apparent that every strategy to incorporate high quality forages in the growth path increased the riskiness and potentially the indebtedness of the beef business. The consequences of too quickly implementing potentially highly profitable alternative growth paths that involve significant operational change and investment need to be carefully considered.

Another insight provided by the analysis is that even where limited areas of high quality forage are available, it may still be equally as profitable to stock the area with sufficient weaner steers so that they make a target sale weight, not to “finish” groups of steers.

The key points for the growth path of steers were quite dramatic. For example steers grazing leucaena-grass pastures from weaning reached feed-on and abattoir target entry weights (474 and 605kg paddock weight, respectively) at 19.3 and 26.0 months of age. Compared to the base scenario of grazing steers on buffel grass the age of turn-off for feed-on and finished steers was seven and eight months earlier, respectively.

For the breeding and finishing enterprise, the growth path that produced the greatest annual beef production for the whole herd (313kg/ha) was that where steers were grazed on leucaena-grass pastures until sale as finished steers. This beef production was an increase of 30 per cent over the base scenario which produced 246kg/ha.

The scenario of producing yearling steers by providing oats in their first dry season resulted in the greatest average liveweight gain from weaning: 0.81kg/d over 146 days and the greatest annual beef production (345kg/ha) for the steer turnover enterprise.

For the breeding and finishing enterprise, this same growth path resulted in the greatest number of cows and heifers mated, calves weaned and cattle sold per annum, of all growth paths considered.

The impact of the growth paths on the profitability and riskiness of the beef businesses was also significant. The analysis showed that for both enterprise types, placing steers on to leucaena-grass pastures from weaning until feed-on weight was substantially more profitable than any other growth path.

For the steer turnover enterprise this was an improvement in profitability of 121 per cent compared to the base scenario of producing bullocks off buffel grass. For the breeding and finishing enterprise, the optimal growth path resulted in an improvement in profitability of 37 per cent compared to the base scenario but required purchase of additional breeders to maximise utilisation of the leucaena-grass pastures immediately.

The seven most profitable growth paths for both enterprises incorporated leucaena-grass pastures. However, implementing a leucaena-grass system substantially increased peak, deficit levels and financial risk, with payback periods of eight and 14 years for even the most profitable leucaena-grass growth path, for the steer turnover and the breeding and finishing enterprise, respectively.

While providing a high quality forage for any period during the growth path of steers reduced the age of turn-off compared to that expected on average from buffel grass-only pastures (26.2 and 34.0 months for feed-on and finished steers, respectively) it was not always more profitable to do so.

For example, the growth path providing forage oats twice, in dry season one and two and with leucaena-grass in between, resulted in the youngest age of turn-off at finished weights of any scenario (22.8 months). However, this growth path was only marginally more profitable than the base scenario for the steer turnover enterprise ($2,015 extra profit per annum) and resulted in 321.239 less per profit per annum than the base scenario for the breeding and finishing enterprise.

Any growth path that incorporated forage oats, in either a turnover or breeding and finishing enterprise, resulted in a lower economic and financial performance than a similar growth path that incorporated leucaena.

Furthermore, incorporation of oats into a breeding to growth path always reduced the profitability of a steer turnover or a breeder and finishing enterprise. Additionally, implementing forage oats into either beef enterprise substantially increased peak deficit levels and financial risk. These findings do not indicate that beef enterprises that incorporate forage oats are unprofitable, only that they are likely to be less profitable than the alternative buffel grass-only beef enterprise.

In our analysis we did not account for the years likely to be unsuitable for planting oats (30 per cent of years) which would further reduce the profitability of the oats growth path scenarios.

The poor relative profitability of utilising oats forage was seen despite oats enabling a younger age of turn-off and despite filling the apparent “feed gap” resulting from the poor quality of available forage over the winter dry season.

The analysis provides both challenging and interesting insights. The production of slaughter weight steers off good quality buffel pastures has been seen as the most profitable beef production system for many CQ beef producers.

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EDGEnetwork Training Packages Revamped!

Meat and Livestock Australia (MLA) are offering producers the opportunity to attend the new and improved EDGEnetwork training packages designed to provide tailored, comprehensive, practical learning opportunities. The EDGE packages available are Grazing Fundamentals, Breeding EDGE, Business EDGE, Grazing Land Management EDGE and Nutrition EDGE. Each package complements and connects; providing producers with the skills and knowledge to enhance business and livestock management and positively influence profitability, sustainability and productivity in their business.

Knowledgeable industry leaders and technical experts were consulted and directly involved in the review process. The packages now include the most up-to-date knowledge, research findings, best practice recommendations, and tools and strategies.

To suit a wider audience the three-day workshops (Grazing Land Management, Breeding, Nutrition, and Business EDGE) now have different delivery options. They can be run over three consecutive days, three separate days (a week to a fortnight apart), or as two consecutive days plus another day at a later date.

Grazing Fundamentals

A new one-day workshop called Grazing Fundamentals has also been developed. The principles covered at the Grazing Fundamentals workshop provides links to the more detailed and skills-based EDGE workshops and Stocktake package.

The Grazing Fundamentals workshop aims to give the producer a broad understanding of the environment in which they operate and the core principles behind successfully maintaining grazing land condition and long term productivity.

The workshop topics include:
- environmental regulators of pasture growth and quality
- long and short-term carrying capacity
- basic principles behind successful grazing systems
- local pasture growth patterns
- how soil type influences pasture growth
- land condition
- forage budgeting
- how soil type influences pasture growth
- land condition
- forage budgeting
- key management accounting concepts
- how to generate and interpret key financial information on your business
- how to set up your financial system to provide key information for management
- to determine if your debt is creating or destroying wealth and how much of it your business can afford
- to determine if all the family needs and aspirations can be funded by the business
- how to assess and manage agricultural business risk
- to understand and manage enterprise performance, including what the key profit drivers are, how to influence them and what effect they have on overall business performance.

Grazing Land Management EDGE

The Grazing Land Management (GLM) EDGE package is designed to provide producers and other land managers with the tools to manage pastures in a way that improves beef production and meets suitable ground cover levels essential in promoting infiltration and conserving soil. An understanding of grazing ecosystems, soil health, land condition and perennial pastures (and their role in maintaining land condition) are key when designing the best practical approaches for grazing land management. The ability to assess carrying capacity and adjust seasonal stocking rates using forage budgets are skills that empower producers to achieve productivity whilst maintaining resilient landscapes and viable businesses.

Workshop topics include:
- the major climate influences in northern Australia and how they affect pasture growth;
- how to allow for climate variability when planning livestock management;
- how to build a seasonal climate profile for your property;
- how land types influence productivity and how to recognise dominant land types in your region;
- how soil properties influence plant growth;
- soil health and the factors that impact on it;
- what pasture plants comprise the grazing system and how to identify key plant species in your region;
- perennial grasses and their role in land condition and pasture stability;
- what land condition is, how it is assessed and how to manage livestock to maintain or achieve good land condition;
- selective grazing, its function and how to reduce its impacts;
- assessing long-term carrying capacities of paddocks and properties, accounting for land condition and distance from water;
- forage budgeting to manage variation in pasture available;
- the main impacts of trees on the grazing land ecosystem;
- the role of fire in grazing land management;
- the role of swan pasture;
- the principles and planning steps for successfully managing weeds.

Nutrition EDGE

The Nutrition EDGE workshop is the most comprehensive nutrition workshop program for ruminant cattle in northern Australia. It has been designed to enable producers to:
- establish the value of their pasture feed base including the amount of available feed and the quality of the diet;
- determine animal nutrient requirements for various classes of stock and the gap between what the pasture is providing and the animal requirements. This forms the basis for how animals are managed nutritionally;
- identify the most cost-effective and practical means of addressing nutritional deficiencies or targeting higher fertility or growth rates;
- evaluate options for addressing nutritional deficiencies or targets rather than defaulting to a supplementary feeding program;
- understand what the supplement types are and what nutrients each group effectively provides, then to be able to assess various supplements on their ability to deliver effective levels of nutrients;
- calculate cost comparisons between supplements on a nutrient basis rather than a tonnage basis based on the primary limiting nutrient in the diet.

In the recently revised edition of the Nutrition EDGE workshop notes, the modules have been split into 7 modules from the previous 5. All of the information in the Nutrition EDGE package is based on rigorous scientific research and well-established ruminant nutrition principles. The new package includes more comprehensive information on water quality, diet quality, phosphorus research outcomes, and the factors that affect pasture and diet quality.

The Nutrition EDGE workshop takes a systematic approach to addressing nutritional issues on-property, and looks at all aspects of management, including activities to evaluate possible technologies, or supplementary feeding program.
VegMachine tool showcases Queensland cloud based technology

An online land management grazing tool developed by the Queensland Government is now becoming popular in other Australian states.

Department of Agriculture and Fisheries (DAF) senior scientist Dr Terry Beutel explained that Vegmachine is a relatively new cloud-based tool that has been developed for Queensland graziers.

“VegMachine can be used by graziers and land managers to identify which paddocks need more attention. It can generate reports that provide historical paddock-by-paddock, landscape-by-landscape analysis of ground cover change, from 1990 to the present”, said Dr Beutel.

“Our data analysis shows that although we designed it for Queensland graziers, about 30 percent of enquiries are coming from outside Queensland showing the need for this kind of tool for graziers throughout Australia.

“By using VegMachine, graziers can access the longer term trends in their grazing properties and it provides easy access to ground cover data derived from nearly 30 years of Landsat satellite imagery.

“VegMachine provides users with an objective tool to understand the relationship between their management and their erosion vulnerability, summarised in simple to read reports. This is valuable information for grazing enterprises interested in sustainable property management, monitoring and evaluation.”

The VegMachine website was developed by the Queensland government through funding by the Fitzroy Basin Association. It is free to use, open to public access and does not identify individual users.

Most importantly VegMachine® has been designed for ease of use, with a simple layout, a short user guide, and a YouTube channel to guide users.

Graziers interested in finding out more should contact DAF on 13 25 23 or visit the website at https://vegmachine.net/.

Wetlands and cattle co-existing in harmony

Broadmeadows is one of the earliest areas in Central Queensland to be used for grazing cattle.

It sits on the floodplain of Nankin Creek before it meets the Fitzroy River estuary and has a history of sustaining cattle and wildlife on its well-watered marshes.

Over the past 150 years, a viable stud and commercial cattle business has been built up that co-exists with thousands of waterbirds, including swans and brolgas that regularly nest in the wetland.

The current managers, Robert and Michele Lang, are at the forefront in adopting successful strategies to reduce soil erosion on vulnerable slopes in the wetland catchment.

Grazing at Broadmeadows occurs on the floodplain, much of which is occupied by a swamp or ‘marsh’, as well as on low slopes draining to the floodplain.

Water couch Paspalum distichum is a mainstay of the enterprise because the wide shallow marsh where it grows remains wet or damp for most of the year, especially if there has been winter rain.

Prime weight gain is usually achieved by October each year. Stocking rate is generally reduced to one beast to 1.5ha, or higher in the marsh pastures for short periods.

Rob Lang’s primary concerns in managing the property are to improve ground cover, control salt and reduce erosion to create better grazing practice. Some of the sloping upland areas of Broadmeadows are subject to gully erosion and increased salinity, and so are a focus of management planning.

“The principal intervention so far has been to improve ground cover, control salt and reduce erosion to create better grazing practice. Some of the sloping upland areas of Broadmeadows are subject to gully erosion and increased salinity, and so are a focus of management planning.”

A case study on Nankins Plain and the Broadmeadows property has been completed by Fitzroy Basin Association and the Department of Agriculture and Fisheries through the Queensland Wetlands Program.


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Barcaldine tradie swaps wood for wool

Barcaldine’s Andrew Ross is candid when asked why he became a shearer. It was about money, and he jokingly adds, proving to his mum he could endure the hot and hard work.

Why try shearing?

• Increasing job opportunities as sheep numbers rise.
• Shearing can pay more than conventional trades, like cabinet making.
• Shearers are in demand so job security is high.

“They can be long, hot days, but doing a job well and being paid well can be very rewarding.”

He has now taken over his parents’ team and is committed to encouraging others to get involved in the industry.

“I am loving it. It is a great industry to be a part of and if anyone out there is interested I would really recommend giving it a go.”

Watch this short video (2mins 40secs) to hear more from Andrew Ross about why he recommends anyone giving shearing a go: http://bit.ly/25zuwH

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Right starter business can help you buy your own rural property

Like a lot of young people working in rural industry, Longreach’s Dave Owens dreamed of buying his own property. Today his dream is a reality thanks to some strategic business ventures.

The western Queensland sheep and wool producer advises others with the same life goals to be prepared to start in businesses with a quick monetary turn-over, like shearing, sheep trading and selling wool.

Today he owns Somerset, a 10,000ha grazing property, 70kms south of Longreach, running up to 8000 Merino ewes. For the past nine years he has also operated his own contract crutching team travelling and working throughout western Queensland.

He admits managing two businesses at once could be challenging, but he credits an ability to juggle a hectic schedule with helping him achieve his goal of buying his own property.

“There are so many opportunities to get ahead in the wool industry. Before I bought my own place, I was trading sheep because they were affordable and were a more reliable option than cattle – there has always been money in them,” Mr Owens said.

“If you start off creating quick turn-overs through sheep trading, shearing and selling wool it can help you get ahead and it was these businesses that helped me make enough money to buy Somerset.

“When I first bought Somerset it was a low input property with nearly every paddock having access to an open water source. So this meant I was able to keep travelling away with my contracting business, because I could be gone for five to six days and know the sheep had access to water.

“It also meant I had a profitable off-farm business. The income I was receiving from contract crutching gave me a quick cash flow and having that second income meant the bank took me seriously. It also allowed me to develop and make improvements on Somerset, which meant I could grow that side of my business financially."

When it came to property ownership, Mr Owens said a focus on improving sheep production rates proved a key driver to increasing profitability. He is also a staunch advocate of effective record keeping, both on-property and in the office.

“From the start it is important to keep an eye on costs; you need to crunch hard numbers. It’s also a good idea to speak to someone else in the business who has had some experience and tips for keeping on top of expenses,” he said.

“For example, when I first started out, I spent a lot of time with stock on agistment before I realised the finances weren’t working out for my business. If you’re going to get into the agricultural game, work out your numbers and finances first. It can make a major difference to success or failure, especially when you are first starting out.”

At a personal level he said operating multiple businesses has also allowed him to spread risk to a certain extent and there was an upside to juggling the roles of sole producer and running a contracting team.

Looking forward, Mr Owen has plans to continue to improve his Merino flock and expand his property portfolio. And his advice for those weighing up a future in agriculture?

“Tog et ahead you really have to love the industry. It’s a tough environment but can pay off if you work smart.”

Watch this short video (4mins 28 secs) to learn more from Dave Owens about owning his own property and running a contract crutching business: http://bit.ly/2guJPK2