



# Southern Australia Durum Growers Association Inc

[www.durumgrowerssa.org.au](http://www.durumgrowerssa.org.au)

## From the Chairman ....

Since taking over as chairman at the July AGM I have been proud to lead a great organization which faces many challenges regularly but with the network of great people around me continues to make great strides forward often under very trying climatic conditions for some.



First I must thank previous Chairman Leith Cooper and John Green for the great work they did before me as well as the ongoing work of Neville as Treasurer /Seed manager and Monica for secretary and promotion of the Industry, well done to you all.

John Green continues the challenging job of coordinating sponsorship and trial work and takes a massive load off my shoulders, great work John. Adrian McCabe attended the Northern Durum Zone meeting with me in September, many thanks!

The tribute dinner for Tony Rathjen was well attended after the AGM in July with many great speeches and presentations .We wish Tony all the best for the future .

September was busy with the Mid North crop walk at the Crawford's and the Tarlee High Rainfall Site on the 4<sup>th</sup> of September.

The Hart Field Day was held on the 18th with two speaking spots assisted by Jason Able and Kenton Porker.

The Landmark Trial sit at Paskeville was attended on the 26<sup>th</sup> of September with a disappointing crowd, due mainly to the inclement weather conditions.

Met with Allan Mayfield SAGIT Rep and Malcolm Buckby from Rural Services on September 17<sup>th</sup> to discuss ongoing research money for Durum projects.

Attending the Kaniva/ Bordertown crop walk on the 16th of October, and was a real pleasure to see the great passion and interest in the industry and to see outstanding presentation of crops and trials.

Well done Alwyn and helpers!

Issue 4—April 2013

Prior to our February committee meeting had productive talks with senior management at San Remo and was pleased with the way Neville and I were received.

Attended the Carnevale on February the 10<sup>th</sup> and was very impressed with how the Italians celebrate their culture. Richard Konzag received the San Remo durum grower of the year award, a worthy choice to a very dedicated grower.

Harvest this year was very challenging in many areas with low growing season rainfall, frost, screenings and low protein .However most growers were surprised how well their crops went and those who chanced that elusive finishing downpour did very well.

Let's hope that 2013 may be more productive with a good soaking break in the near future!

Both the Kaniva and Blyth Forum's were well attended with quality speakers enjoyed by all.

Thanks to the committee for ongoing support and assistance at the Forums.

Thanks to the Breeders, Seed Growers and Marketers of Durum in SA and Victoria.

Special thanks to our Sponsors who are our lifeblood to continue the work to promote, breed and produce this special product.

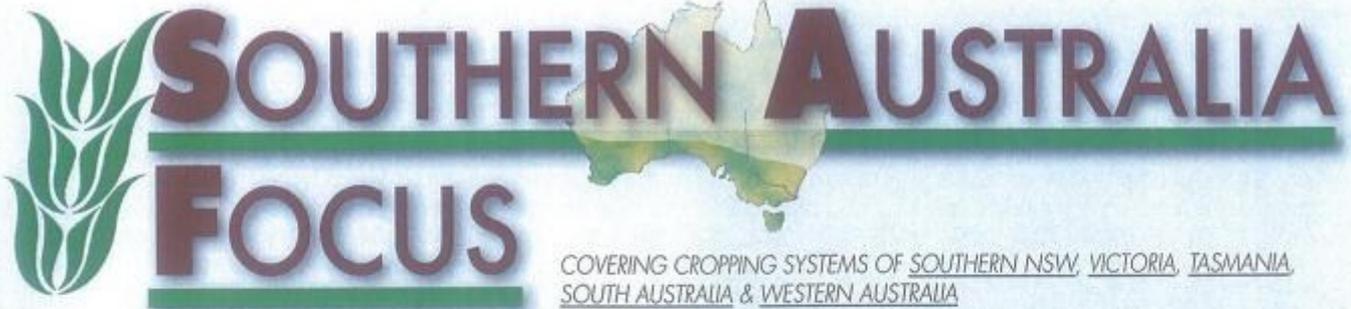
**Mark Hill, Chairman**

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Jason Able, Lecturer in Plant Breeding & Genetics, DBA Southern Node Leader,  
School of Agriculture, Food & Wine, The University of Adelaide



COVERING CROPPING SYSTEMS OF SOUTHERN NSW, VICTORIA, TASMANIA,  
SOUTH AUSTRALIA & WESTERN AUSTRALIA

## THE RESEARCH VIEW

# Research getting to the root of durum wheat constraints

### TAKE HOME MESSAGES...

- GRDC-funded University of Adelaide project investigating durum wheat root traits and nutrient efficiency;
- Project aims to achieve higher and more consistent yields through improved root systems; and,
- Zinc efficiency and adaptation also being investigated.

**R**ESearch funded by the Grains Research and Development Corporation (GRDC) is aiming to accelerate the development of durum varieties that achieve higher and more consistent yields through improved root systems.

The project, being undertaken by the University of Adelaide, is investigating root traits and nutrient efficiency with a view to developing more vigorous and efficient root systems for more productive durum.

Research leader Dr Jason Able says the project's objectives are to:

- Evaluate whether recent improvements in durum yield, yield stability, stress adaptation and crown rot tolerance can be attributed to differences in root architectural traits;



GRDC-funded research conducted by the University of Adelaide and led by Dr Jason Able is investigating root traits and nutrient efficiency with a view to developing more vigorous and efficient root systems for more productive durum wheats.

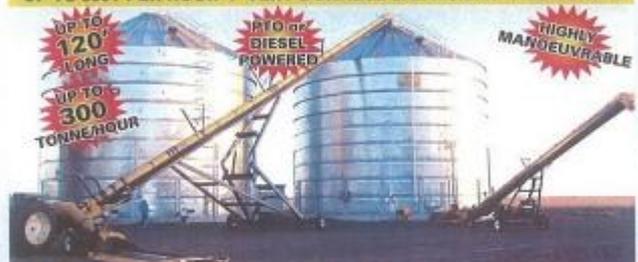
## Consultants' Corner

Consultants' Corner is an initiative by *Australian Grain* highlighting current GRDC-funded research with a particular focus on the commercial implications of adopting cutting-edge research.

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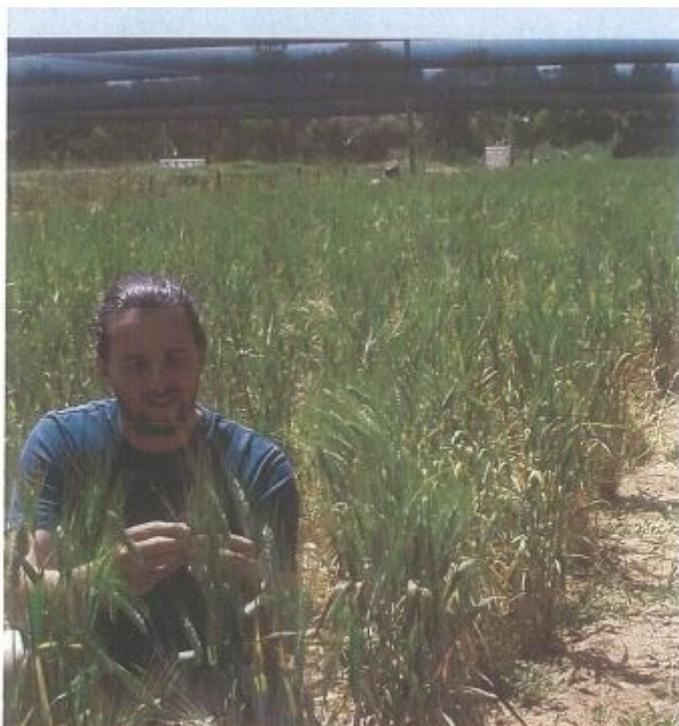
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Jason Able believes it is time to move on from the perception that durum is a risky crop to grow.

- Assess the extent of available variation for root traits in durum germplasm, and select new parents and new traits for use in durum breeding; and,
- Assess the utility of known sources of zinc efficiency and early root vigour and develop useful new germplasm for durum breeding.

The project's achievements will be measureable in terms of information on trait values, protocols for trait assessment and germplasm made available by this project. The extent to which the germplasm and the outputs are adopted by the national durum breeding program, Durum Breeding Australia (DBA) will be a key measure of the project's success.

### Access international germplasm

As well as being important to Australia's durum growers and the broader industry, the project is also of considerable importance in a global context.

"Germplasm we produce that is used in DBA will eventually find its way overseas to some of our collaborators in Italy and Germany," Jason said.

"This enables us to access valuable and useful germplasm from our overseas collaborators. Australia is on a global scale a minor investor so any collaborations that add value to our program are important in benefitting Australian durum growers. Sharing germplasm of this kind not only promotes much-needed cooperation but it also increases the genetic base from which breeding programs can work."

Jason said some Italian researchers were also engaged within similar areas of research and he anticipated that knowledge from this work may be of use to the Australian program.

### Always investigating zinc efficiency

In addition to root traits, the project is investigating zinc efficiency in durum and adaptation.

Jason says while the research findings are in their infancy, data already gathered suggests there is some genetic variability for

zinc efficiency in durum. The number of entries screened through the zinc assay was increased in 2012.

"Last year we introduced some germplasm from Italy and Turkey into the breeding program and it will be important to screen these lines to identify any potential lines that have a differential response to zinc when compared to the germplasm that has already been tested."

Trial sites for the research are located throughout South Australia. For the root traits component, trials have been conducted at Claypans, Winulta, Angas Valley, Bordertown and Kapunda.

Zinc efficiency trials have been conducted at Minnipa, Bordertown, Angas Valley, Coonalpyn and Waikerie, while the adaptation trials have been located at Winulta, Angas Valley, Bordertown and Kapunda.

This particular project is SA specific and is fully funded through the GRDC. It employs a post-doctoral fellow and a technical officer.

Jason, as the project supervisor, has also encouraged an overseas Masters student from Iraq to investigate one small component of this project (specifically looking at whether zinc deficiency affects the incidence of crown rot infection in durum).

While the research is undertaken by the University of Adelaide, it does have implications for DBA – previously known as the Australian Durum Wheat Improvement Program – which is funded by the GRDC with support from the NSW Department of Primary Industries, the University of Adelaide and pasta manufacturer San Remo Macaroni Pty Ltd. This program is led by Dr Gururaj Kadkol of NSW DPI.

The second five-year phase of DBA is targeting improvements in performance under crown rot pressure and adaptation to different regional biotic and abiotic stresses.

### Durum in Australia

Jason said durum was a niche, high value crop in Australia and on average produced close to half a million tonnes of grain annually, although this figure fluctuated from one year to the next.

"We're a small bit player globally, but our export market is very strong because of the quality of grain we produce for pasta manufacturers."

In terms of the amount of land currently being sown to durum Jason said plantings in SA alone in 2012 totalled around 80,000 hectares. This was about 10,000 hectares more than the previous year, with a number of reasons contributing to the increase.

"Firstly, growers are starting to see that there are some good new varieties that have recently been released, and there are others in the pipeline to be released in the coming years.

"Secondly, the price premium over bread wheat during 2011 was roughly \$100 per tonne more if you received DR1.

"Growing several hundred hectares of durum that averaged five tonnes per hectare means that your profit margin increases substantially compared to growing bread wheat (that won't necessarily out-yield the new durum varieties)."

While durum production in Australia has largely been limited so far in terms of geographical spread, Jason says potential does exist for expansion and current research is aimed at underpinning this larger production area.

As the DBA southern node leader and breeder, Jason is keen to see a significant increase in durum production in two key areas.

"The first of these is in the south-east of South Australia, from Keith all the way through to the Western Wimmera region of Victoria," he said.

"The second area is the southern Yorke Peninsula region, in addition to expanding the grower base around the mid north of SA, where durum is currently widely grown.

"For the northern region, we expect to increase our production area in the north-east and north-west, as well as the irrigated regions around southern NSW.

"Yawa, a recently released variety from the southern node is yielding around nine to 10 tonnes per hectare in southern NSW. So for growers who are looking to try out durum, or for growers that are already in durum, it is all good news."

Jason said growers in a number of regions had expressed a desire to try growing durum or wish to grow more of it.

He said a perception that durum was a risky crop to grow, particularly because of crown rot, had discouraged some growers from planting it.

"It's time people moved on from that perception because we

have come a long way in terms of practices and strategies to mitigate risk."

Although a niche crop, durum research in Australia does require substantial investment, according to Jason.

"While durum may not compete with bread wheat for equivalent research dollars, it is important to conduct research that specifically addresses some of the unique challenges specific to durum.

"Increasing the investment at the pre-breeding end means that breeding programs can benefit in the mid to long term. In the short term, the breeding program does what it does best – that is, generates new varieties based on yield potential across many different environments, while still ensuring that high quality attributes are maintained."

For more information: Dr Jason Able, Senior Lecturer in Plant Breeding and Durum Breeder, The University of Adelaide. Phone 08 8303 7075 or 0459 841 586, email [jason.able@adelaide.edu.au](mailto:jason.able@adelaide.edu.au)

## THE WORLD DURUM SCENE

In 2012–13 world durum production is forecast to decrease by 1.4 million tonnes to 35.3 mt, as higher production for the US, Canada, Algeria and Tunisia is more than offset by lower production for Kazakhstan, Morocco, the EU, Syria, Mexico and Australia.

As a result, world durum supply will decrease by 1.1 mt to 43 mt. Use during 2012–13 is expected to decrease by 0.6 mt and ending stocks are forecast to decrease by 0.5 mt to 7.2 mt.

This is the lowest level of ending stocks since 2008–09.

The supply from the three major exporters, Canada, US and the EU, is expected to increase by 0.7 mt in 2012–13 to 20.4 mt.

Average world durum prices are expected to be similar to 2011–12 as support from the lower world supply is offset by lower world use and by the higher US supply.

### Canadian production

For 2012–13, the world's biggest durum producer Canada, is forecast to increase production by 11 per cent from the 2011–12 harvest to 4.63 mt. Average yield is estimated at 2.46 tonnes per

hectare. There had been a 17 per cent higher seeded area but this was partly offset by lower yields.

The quality of the Canadian durum crop was on average better than 2011–12 in terms of both grade and protein. The supply increased by seven per cent as lower carry-in stocks partly offset the increase in production.

Canadian durum exports are forecast to increase by 14 per cent to 4.1 mt because of lower production in the EU, Morocco and several other countries – which is expected to increase demand for Canadian durum.

Canadian ending stocks for 2012–13 are forecast to decrease by 14 per cent to 1.3 mt, which is 25 per cent lower than the past five-year average and the lowest since 2007–08.

US durum production is estimated to have increased in 2012–13 by 0.86 mt to 2.23 mt due to a 61 per cent increase in seeded area. Supply rose by 0.8 mt to 4.13 mt as the increase in production was partly offset by lower carry-in stocks. EU durum production decreased by 0.2 mt to 8 mt, while supply fell by 0.4 mt to 10.2 mt.

Source: Agriculture and Agri-Food Canada



### New Plot Harvester

major sponsors San Remo and GRDC

# Feedback for the DGA from the GrainGrowers National Wheat Quality & Variety Report



## Background

- ◆ GrainGrowers has tested 1,400 wheat samples from around Australia
- ◆ Every participant was sent a report and grade for each sample submitted
- ◆ Wheat results have been entered into a data base to benchmark production, now available for participants.
  - Gross revenue
  - Protein achievement
  - Variety comparison
- ◆ No cost to growers – this is an industry good service and represents a significant investment by GrainGrowers

## For International Customers

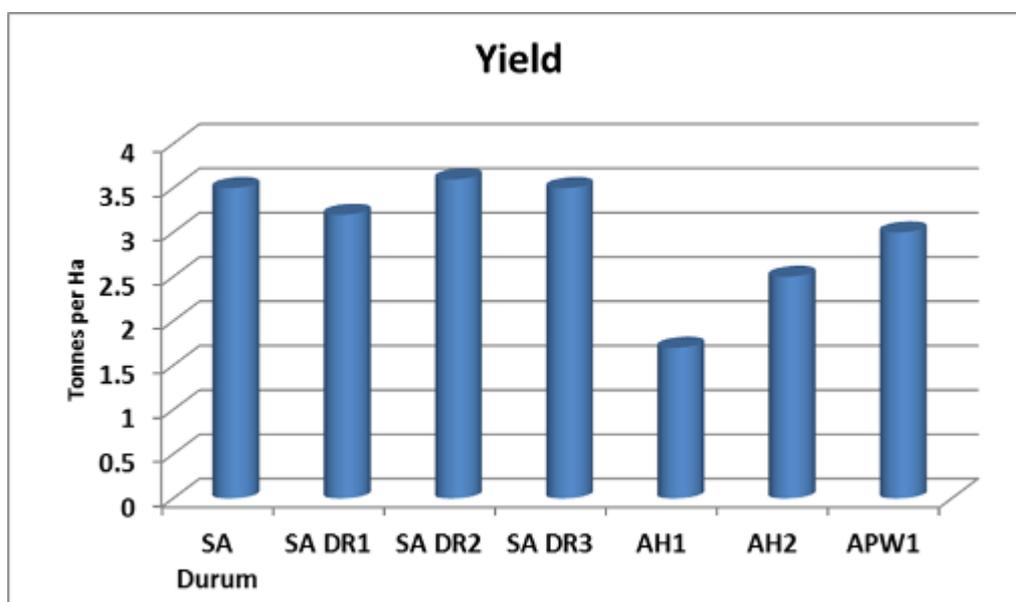
- ◆ GrainGrowers will prepare an independent, national report for customers to help them select the best Australian wheat
- ◆ This serves to Promote Australian Wheat on behalf of growers
- ◆ When surveyed, this information was the number one request made by customers

- ◆ The technical report includes milling, baking and noodle data on major wheat grades.
- ◆ This information also provides valuable information to support the ongoing improvement of Australia’s wheat grades
- ◆ The report also include a Biosecurity survey

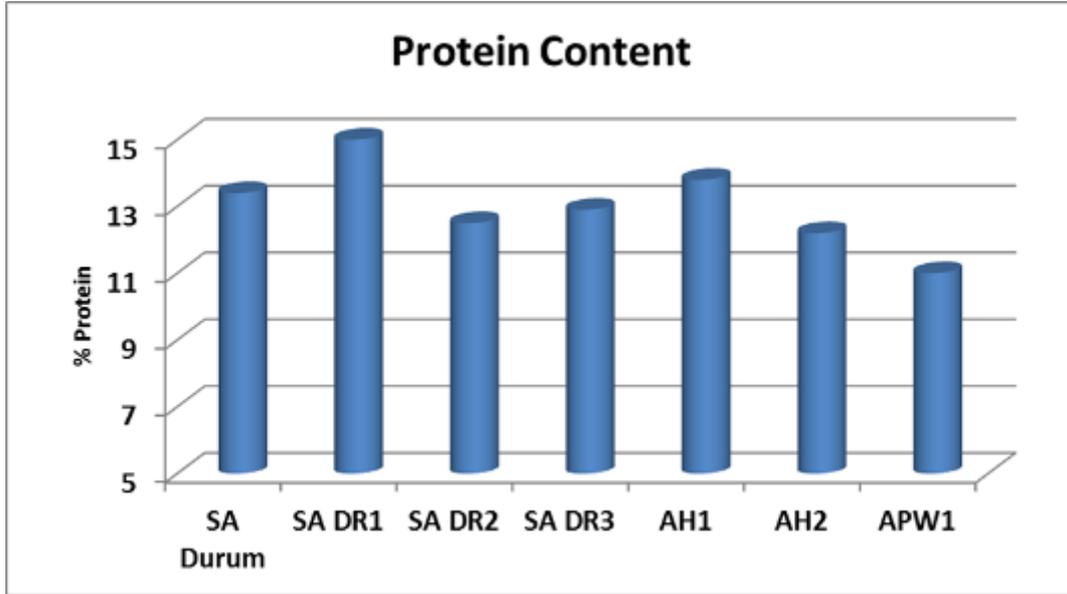
## Summary of results:

- ◆ Low protein achievement which was common across Queensland, NSW and Victoria. Proteins were higher in SA and WA. This was reflected in the Durum harvest.
- ◆ Grain was sound with high falling numbers. This is the most significant contrast to the 2011/12 harvest which was rain effected. SA Durum falling numbers averaged above 500 seconds
- ◆ Very low levels of Feed Wheat – contrast to 2011/12

**Yield – appeared to be better that for bread wheats**



# Feedback for the DGA from the GrainGrowers National Wheat Quality & Variety Report [cont.]



### SA Durum Protein Content

- ◆ The high protein content of SA durum was consistent with the overall protein levels within the state.
- ◆ 27% of durum samples received went DR1, 20% DR2 and 52% were DR3
- ◆ Durum appeared to yield above the AH and deliver higher protein content.
- ◆ This suggests durum was grown under more favourable environments and better managed

### Variety Performance of SA Durum

Variety	Per cent of Samples	Yield (T per Ha)	Protein Content (%)
Hyperno	52	3.6	13.3
Saintly	21	3.5	13.0
Caparoi*	10	3.1	15.3

\*small sample numbers

Please call me if you have any questions in relation to this or any other GrainGrowers matter. The national report will be released within a few weeks and will be available on our website or by contacting me.

[www.graingrowers.com.au](http://www.graingrowers.com.au)

**For further information  
contact:  
Bill Vandeeper**  
Field Officer for South Australia  
**Grain Growers Limited**  
**0407 818 454**

# Kaniva Forum— 27th March 2013



Sponsors, Speakers and Committee Members enjoying the BBQ and drinks on the eve of the Kaniva Forum at the Colonial Gardens Motel, Kaniva.



Left: Greg Davies and Emma Ayliffe both of Tandou speaking with John Stuart, San Remo at morning tea break.



Dr Jason Able speaking at the Kaniva Forum “Highlights of 2012 Durum Breeding Programme and Current Durum Breeding”



The Kaniva Forum was well attended by approximately 50 growers, sponsors and speakers

## Blyth Forum— 3rd April 2013



Allen Kelly, retired committee member, farmer Manoora, Denis Hawke, Harley Milling, Qld, and David Shannon, GRDC attended the Blyth Forum.



Marg Evans, SARDI and Kenton Porker, SARDI and speaker on the day "2012 Trial Results."



Andrew Parkinson, Landmark Riverton, speaker, John Rohde, committee member, farmer Tarlee, Mark Hill, Chairman, farmer Tarlee.



Alwyn Dyer, committee member and farmer Kaniva with Dr Mike Sissons, speaker NSW Ag Tamworth Research Centre.



Left: David Evans, ANZ speaking with Ben Marshmann, retired committee member and speaker giving a Farmer's Perspective.

Please refer to our website at  
[www.durumgrowerssa.org.au](http://www.durumgrowerssa.org.au)  
for more photos and Stock Journal  
Articles of the Forums

## Change of Name for the DGA

At the Durum Growers Association Inc Annual General Meeting held at the Blyth Forum on Wednesday 3rd April 2013, it was unanimously moved and seconded that the Association change its name to encompass and acknowledge the West Wimmera committee members and district.

The DGA will from now on be referred to as the

**“Southern Australia Durum Growers Association Inc.”**

## San Remo Carnevale—2013



Richard Konzag, farmer Mallala

was nominated as San Remo's

**“Durum Grower of the Year”**

His award was presented to him at the annual

Carnevale.

**Congratulations Richard and well deserved.**

## New and Retired Committee Members



The Southern Australia Durum Growers Association Inc would like to sincerely thank

**Allen Kelly** for his dedication, commitment and contribution to the Durum Industry and to the committee for the past 18 years. You will be sadly missed.

Welcome to **Richard Konzag**, farmer Mallala who has joined the SADGA. Richard has been a member of the GRDC Southern Panel for the past 5 years and, will no doubt, bring a wealth of knowledge and experience to the committee.

**Seed for Sale 2013**

There is a small amount of seed available of  
Hyperno, Saintly, Tjilkuri and WID 802

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***Neville Sharpe***

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**For Enquiries: Mark Hill**, Chairman M: 0418 843 136 E: markhill04@bigpond.com.au

**Monica Trengove**, Secretary M: 0417 803 386 E: monica.trengove@internode.on.net

**John Green**, Sponsorship Manager M: 0427 101 482 E: johng@activ8.net.au

**Or visit our website: [www.durumgrowerssa.org.au](http://www.durumgrowerssa.org.au)**

**Durum Grain Marketers**

**San Remo**

John Stuart M: 0409 100 275 or E: jstuart@sanremo.com.au

Fil Ciancio M: 0419 817 558 or E: fciancio@sanremo.com.au

**AGG**

Steve Mellington M: 0419 867 971 or E: s.mellington@aggcoop.com.au

Jon Moynihan M: 0418 261 017 E: j.moynihan@aggcoop.com.au

**AWB**

Wayne Davis M: 0428 810 235 E: wayne.davis@awbagent.com.au

**Viterra**

Andrew Vroland M: 0419 810 341 E: andrew.vroland@glencoregrain.com.au

**Glencore Grain**

Andrew Wilsdon M: 0427 441 111 E: andrew.wilsdon@glencoregrain.com.au

**GrainCorp**

Lachy Allen M: 0418 905 263 E: lallen@graincorp.com.au

**AGD**

Sean Cole M: 0427 976 584 E: sean@ausgrowersdirect.com.au