Australian Dairy Herd Improvement Report 2014





Australian Dairy Herd Improvement Scheme









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NHIA Chairman's report



By Graeme Gillan NHIA Chairman

The National Herd Improvement Association is proud to co-operate with ADHIS in the production of this publication, which provides the Australian dairy industry with an important record of the level of productivity of the national dairy herd.

This past year has seen a number of very important developments within the herd improvement industry.

Dairy Australia has implemented a wide ranging review of the roles and activities of the sector and set up the Herd Improvement Industry Strategic Steering Group (HIISSG). NHIA is pleased to be a member of the HIISSG and to play a part in bringing forward the Herd Improvement Strategy 2020.

Of specific interest to NHIA members and the dairy farmers they serve is the Herd Test Taskforce set up as part of the HIISSG process. Herd testing and the measurement of individual cow performance is the foundation of all genetic improvement. Without identifying individual animals and measuring their performance there can be no genetic evaluation system, no way of accurately identifying superior bulls or cows for use in breeding programs and no way of enhancing productivity through genetic gain.

The HIISSG strategy recognises the fundamental importance of Australia's herd test sector and we look forward to an alignment of effort across the board that will bring improvements to the benefit of dairy farmers everywhere.

The ranking of individual bulls to ascertain which ones are superior is another fundamental tenet of successful cattle breeding. Another highlight of this past year is the immense effort that ADHIS has applied to getting both farmers and industry to work together to lead to a consensus on the National Breeding Objective. On behalf of NHIA and its members, I should like to congratulate ADHIS on the collaborative process that they have undertaken in setting the NBO and I look forward to seeing the benefits of this in the coming year.

The issue of dairy data and how it is organised in Australia has been part of an ongoing process for the past few years and I am pleased to see real progress being made in this regard. There has been substantial rationalisation recently and there are now two software platforms being utilised by herd test centres, instead of the five of the past. By early 2015, we expect the vast majority of herd test data to have been amalgamated onto one database. This should see us begin to realise the immense industry benefits that we know that we should be realising from working together collaboratively instead of in separate 'silos'.

Talking of collaboration, I would like to take this opportunity to acknowledge and thank our industry partners, Dairy Australia and ADHIS, as well as all breed societies and our members in NHIA for the congenial spirit that has marked our interactions in the past year. Each is a vital cog in providing dairy farmers with the tools to run profitable dairy operations and it is pleasing to see the benefits of working together for the common good.

ADHIS Chairman's report

It has been three years since I took the position as chair of ADHIS and 2014 has proved an exciting and dynamic year to be involved in herd improvement. For ADHIS the past 12 months has been a hive of activity with several milestone projects underway. I would like to start by thanking all of our stakeholders and partners including Dairy Australia, Department of Environment and Primary Industries (Victoria), the Dairy Futures CRC, herd test centres, bull companies and breed societies for their ongoing collaboration and tremendous support. A special thank you also to all the farmers who took the time to contribute to the National Breeding Objective Review at its various stages- your contributions have been invaluable in setting the future direction of cow breeding in Australia.

As you will see in this report, the dairying environment in which we are operating is constantly evolving and so it is more important than ever that we remain flexible and relevant to the industry. Over the past 12 month ADHIS has embarked on the National Breeding Objective (NBO) Review, our most ambitious communications and engagement task yet, with farmers, herd improvement stakeholders and the broader industry. In January, ADHIS established the NBO taskforce to review outputs during the review process, to provide direction and to ensure wider input from farmers and industry was maintained throughout the review. Following their inaugural meeting during International Dairy Week in January the taskforce has met eight times and provided invaluable direction and debate on the review of our national breeding objective.

In March we kicked off the NBO review with Australia's Longest Farm Walk, talking to more than 600 farmers and industry professionals on 46 farms across 26 locations in every dairying region of Australia. These events were a great success and provided the opportunity for direct interaction with farmers regarding breeding and genetics. The NBO review has been a truly collaborative process and my thanks goes to all those who have contributed in some way. It is now more obvious than ever that data is king when it comes to providing world class analysis for genetic improvement. In order to meet Australia's future genetic evaluation needs ADHIS has this year, with assistance from Dairy Australia, commenced a large scale overhaul of our computer system. The new system, known as GESII, will deliver a greater level of automation, flexibility and quality control to support the evolving requirements of genetic evaluation and genomic testing.

In November Mr Ian Cobbledick and Mr James Neal were appointed to the ADHIS board. Mr Cobbledick and Mr Neal replace outgoing directors Mr Stuart Tweddle and Prof Jock Macmillan. Mr Cobbledick is a sixth generation farmer from Nathalia, Victoria, who has been a committed industry leader and played an active role in many Dairy Australia and UDV initiatives including six years as chairman of Murray Dairy. Mr Neal is a dairy farmer from Oxley Island near Taree, NSW. He has completed a Bachelor of Agricultural Science and a PhD while working as a research scientist for the NSW DPI before taking over the family farm. I would like to thank Stuart and Jock for their significant contributions to ADHIS over their six and three years, respectively, and I look forward to working with the new board in the coming year.

Looking to the future, I am excited to be heading into 2015 with three new indices for dairy farmers. This outcome of the NBO Review is a tangible benefit to the industry and something we should all be proud of. Farmers now have more choice when it comes to selecting bulls for their herd and can have the confidence that the indices will drive progress in the direction farmers want.

Finally, I would like to thank all of the staff of ADHIS for their enthusiasm and commitment to delivering ADHIS initiatives over the past year. The significant achievements that we have made would not have been possible without the team's dedication to driving genetic improvement for all Australian dairy farmers.



By Adrian Drury ADHIS Chairman

NHIA activities



By Carol Millar NHIA General Manager

Herd test plays vital role in Herd Improvement Strategy 2020

Herd testing statistics in Australia have reflected an ongoing decline – both in numbers of herds participating as well as numbers of cows – for more than a decade. The decline in numbers of herds can, to some extent, be explained by the overall decline in the numbers of dairy farmers as there are almost half the numbers of dairy farmers today than there were a decade ago.

It is more difficult, however, to explain the decline in numbers of cows in herd testing. In Victoria, for example, the number of herd tested cows declined from 761,219 in 2001 to 409,743 in 2014.¹

Overall, however, cow numbers in the national herd declined from 2,176,000 in 2001 to 1,650,000 in 2013.² This is a significantly less dramatic decline than the numbers of herd tested cows.

This is a sector with very limited capacity for innovation and many service providers are offering the same products and services to the majority of their customers as they were 20 years ago but the drivers for farmers to herd test are not necessarily the same as 20 years ago. This is due to very tight financial situations as well as human resource and technical issues. As an example, at the taskforce meeting – where five of the biggest service providers were represented – not one person in those organisations had travelled overseas in the past five years to observe latest industry trends or attended any meetings of the International Committee on Animal Recording (ICAR).

Herd test service providers need to overcome their current isolation and improve their connectedness to global developments. They need to re-assess the flexibility of their service delivery and consider the demands of niche processors/markets. While cell counts remain an important focus for both service



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providers and farmers, there are other areas that may need consideration in the near future such as measuring fatty acid profiles in cows, or methane emissions or other milk components not currently measured.

Australian farmers operate in an extremely tight labour market and the extra work needed for herd testing is frequently cited as a barrier to participation. This is an area where technology might be employed to make test day easier, and where more flexible delivery options such as single sample testing or using existing shed equipment to measure volumes would be appropriate. In addition, there continues to be a need to communicate the value proposition of herd testing clearly and simply to farmers.

Herd testing and its importance to farmers for management decision making as well as genetic evaluation is not well understood by elements of the wider dairy industry. The sector lacks effective advocates from the ranks of veterinarians, consultants or even, factory field officers. There is an element of bridge building that may need to occur so that service providers can work with these groups of people to help them better serve the needs of their clients.

The question of data is central to the herd test sector. This issue will be discussed elsewhere and is not the focus of this report, however, it is important that the point is strongly made that Australia needs a centralised data system as soon as possible. It is vital that the quality and quantity of herd test and dairy data is improved for the benefit of all stakeholders. Without such a system, Australia will struggle to maintain its position as a globally competitive dairy industry.

In addition to its contribution to genetic evaluation, herd testing is of vital importance to dairy farmers who use the information from it to base their management decisions. It would be of significant value to both service providers and farmers if herd test reports were made easier to read, more visually appealing and develop new and exciting reports for farmers. For example, there is potential for greater fertility trait reporting, health trait measurements or benchmarking with farmers who supply milk to the same milk buyer and therefore subject to the same payment systems.

Key strategic goals for Herd Test Taskforce

- Increase the participation of farms/cows on herd test to 55% of the national herd by 2020. Currently this participation level sits at approximately 43%.
- 2. Communicate in a more effective way, the value proposition for herd test to farmers as well as other industry participants such as veterinarians, consultants, milk buyers and other industry bodies.
- 3. Develop staff training opportunities for service providers within the herd test sector.
- 4. Develop more flexibility around service delivery of herd test to farmers.
- Investigate further opportunities within the herd test sector for co-operation and rationalisation particularly with regards to marketing, laboratories, transport and logistics.
- Promote a herd test sector that is more connected with other parts of the Australian dairy industry and more 'plugged in' to international trends and developments.

References

- 1. Australian Dairy Herd Improvement report 2014
- 2. Dairy Australia website

ADHIS activity report



By Daniel Abernethy, ADHIS General Manager



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2014 has been a very exciting and action packed year for ADHIS as we embarked on a comprehensive review of Australia's National Breeding Objective and our index. The National Breeding Objective (NBO) aims to deliver herds that the Australian dairy industry needs for the future. This review has been the largest scale review to date and with a focus on farmers having a direct say in the future direction of cow breeding in Australia. Australia's Longest Farm Walk, held in March, along with a farmer preferences survey, the NBO taskforce, and several rounds of industry consultation has seen many hundreds of farmers contribute over the last 12 month. Currently, Australia's national breeding objective is profit and feedback from the review confirmed that driving on-farm profit is still the prime focus for Australia's dairy farmers.

With the NBO review now complete, ADHIS is poised to release three new breeding indices in line with this overriding objective and shaped by farmer preferences. The APR (Australian Profit Ranking) will be replaced by a Balanced Performance Index (BPI) which achieves farm profit through a balance of longevity, health, type and efficient production. A key outcome of the NBO review was the recognition that Australian farmers have a variety of breeding priorities. To better cater for these differences two specialised indices are being introduced; the TWI (Type Weighted Index) and HWI (Health Weighted Index); these will allow farmers to 'fast track' improvement in type traits and health traits respectively.

The April 2015 release will also see the introduction of several updates resulting from research undertaken over the last two years namely a new test day model for evaluating production traits, the introduction of two new traits; Feed Efficiency and Residual Survival, and the introduction of new expression for type traits.

This report provides an overview of this year's key initiatives followed by a full list of developments in Figure 1 (page 8).

HIISSG

Under the leadership of Dairy Australia, ADHIS was pleased to join other herd improvement stakeholders to form the Herd Improvement Industry Strategic Steering Group (HIISSG) and to contribute to the development of Herd Improvement Strategy 2020. This 'whole of industry' strategy will play a key role in supporting a vibrant herd improvement industry which can deliver real value to farmers. A key component of this initiative is to consult widely with farmers and herd improvement service providers to gain input, support and direction on key areas including genetic evaluation and research, herd testing, marketing and extension, breed societies and genomic technology implementation. We look forward to being part of this process and reporting on successful initiatives in next year's report.

Herd15

In March 2015 ADHIS, in conjunction with our industry partners NHIA, Holstein Australia and Dairy Australia, will be hosting the biennial Herd15' conference. The theme of Herd15' is 'Stronger Together, Collaboration in Herd Improvement' and with a program packed with renowned international and local speakers on topics as broad ranging as collaboration on genomics and the value of herd recording we are confident this is our best program yet! We invite you to participate in this event, which attracts keen interest from industry, farmers, scientists, extension and education professionals and government through an engaging program focused on herd improvement.



2014 in review

Test Day Model

Recent research conducted by ADHIS and DEPI-V has shown that a technique for the calculation of production ABVs, known as a Test Day Model, can improve the reliability of ABVs for Production traits and will be implemented from April 2015. This follows the first introduction of a test-day model for cell count in 2008. The new Test Day model replaces the current aggregated 305 day lactation model and will result in increased reliability of production ABVs. This has successfully passed the Interbull test run for all breeds, including Brown Swiss.

Feed Efficiency ABV

A new Feed Efficiency ABV will be introduced from April 2015 for Holsteins based on research conducted with the Dairy Futures CRC, DEPI-V and their global partners and supported by the Gardiner Foundation to determine the validity of a feed efficiency breeding value utilising residual feed intake. Given the same level of performance, some cows use feed more efficiently than others. Selecting animals with higher feed efficiency has a positive contribution towards profit and is included in all three of the new breeding indices.

Residual Survival ABV

A new trait, Residual Survival, will be available from 2015 and will replace survival in all three of the new breeding indices. Residual Survival includes all the reasons why cows last in the herd that aren't related to production, fertility, cell count or other traits that have their own economic values in the indices. Farmers will now be able to more accurately select bulls to improve survival in their herd.

Software upgrade – GESII

Last year, ADHIS commissioned the development of new software to replace the current ADHIS Genetic Evaluation System (GES). This large scale project, known as GESII, is now underway with a number of key milestones met. GESII will provide a quantum leap forward for ADHIS by allowing increased services and more frequent evaluation runs, increased automation and quality control, improvements in data transference between ADHIS and data providers and greater capacity to introduce new traits. Supported by Dairy Australia, this major upgrade will continue through 2015 with completion due in 2016.



Genomics

Genomic technology continues to progress with several key developments. ADHIS participated in GMACE (a new Interbull genomic evaluation service for overseas bulls with no genotype in Australia) to deliver genomic breeding values for 1000's of bulls which would otherwise have no comparable Australian breeding value. August 2014 marked the first release of these breeding values which will be known as ABV(ig)s.

A low-cost genomic screening initiative was undertaken by ADHIS in late 2013 to encourage bull companies to scan a much larger quantity of bulls for their suitability to Australian conditions. More than 1000 additional bulls were screened as part of this initiative to increase selection pressure for sires suited to Australian conditions.

Genetic Progress Report

The popular Genetic Progress Report is fast becoming an essential tool for farmers to help them monitor the success of breeding choices and benchmark against the national average. The Report uses cow ABVs produced from data collected through herd recording to let farmers track genetic progress for profit, production, type, longevity, fertility and mastitis resistance. The Genetic Progress Report adds value to the data already collected through herd recording and, like the Good Bulls Guide, is independent and backed by strong science. Genetic Progress Reports can be requested from herd-test centres and Holstein Australia and this year were mailed out to farmers following the April release of ABVs.

RD&E activity summary

ADHIS continues to invest in a range of research, development, extension, education and communication activities. Figure 1 highlights the impact of several 2014 developments.

2014 in review

| Figure 1: A range of | of ADHIS activities in 2014. | |
|-------------------------|---|--|
| Development | Activity | Impact |
| National Breeding | An industry-wide initiative led by ADHIS and involving hundreds of | Three new indices aligned to farmer preferences means farmers |
| Objective Review | farmers and service providers with strong support from industry, | now have more choice when selecting bulls for their herd. |
| | commercial and government organisations to review the National | |
| | Breeding Objective (for profit) and the index/indices used to achieve it. | |
| Australia's Longest | A series of 26 events on 46 farms in every dairy region to engage with | Farmers can have confidence that the feedback collected from |
| Farm Walk | farmers about the sort of cows we want to be milking in the future. | farmers has had a direct input into the NBO review & resulting |
| | In total, the process involved around 600 participants. | Indices. |
| Good Bulls Guide | Published and distributed in April and August 2014. The Good Bulls | Farmers can build their nerds with confidence by selecting buils |
| | Guide provides data on buils that are above average for profit (APR), | from the Good Bulls Guide. |
| Feeding the Genes | Parts two and three of the Feeding the Genes research were | Farmers and advisers are better equipped to make more |
| recarry the denes | completed to further explore the relationship between feeding | informed decisions about the value of higher genetic merit |
| | systems and genetics. | cows in their own feeding system. |
| The Dairy Moving | Participated in a strategic advisory group that has prioritised areas of | A clear identification of the importance of the daughter |
| Forward Fertility | investment for improving Australia's herd fertility | fertility ABV and semen fertility as priorities for improving herd |
| Steering Group | | reproductive performance. |
| DEPI Breeding | Facilitated genetics discussions among farmer groups, contributed to | The base of genetics extension providers is broadened so that |
| for Performance | DEPI information sessions, contributed to capacity building of DEPI | more farmers are able to benefit from using ABVs to improve |
| project | staff. | their herd. |
| Fertility data | The Dairy Futures CRC and ADHIS Fertility Data Project has achieved | Farmers can more effectively improve this trait through |
| project | its target of one million more fertility records. | breeding because more bulls have Fertility ABVs with higher |
| | | reliabilities. |
| NCDEA breeding | Support NCDEA in the development and delivery of 'Develop and | Farmers are supported with regional delivery of a formal |
| unit | Implement a Breeding Strategy' unit from the Diploma of Agriculture | training program in applied dairy cattle breeding. |
| Destidies et de s | Program. | |
| Building the | ADHIS continues to work closely with the CRC and other industry | Increasing the reliability of genomic breeding values which |
| reference | phenotype reference population | no Australian daughters with more confidence |
| Type expression | ADUIS has investigated best practice for the expression of type traits | Standardicing two traits will make it easier for farmers to assess |
| Type expression | internationally. Standardisation of type traits will be introduced from | how good an animal is for that trait |
| | April 2015. | now good an animal is for that that. |
| GINFO | ADHIS is collaborating with the DFCRC on GINFO, a two year research | This data will help inform future genomic tests and improve the |
| | project working with 100 dairy herds to inject data into the national | reliability and accuracy of genomic testing. |
| | genomic reference set. | |
| ABV(ig)s | ADHIS has collaborated with Interbull on new Interbull genomic | 1000s of additional bulls can be reviewed for their suitability |
| | breeding values for overseas bulls with no genotype recorded in | to Australian herds that would otherwise have no comparable |
| | Australia (also known as GMACE). August 2014 marked the first | Australian breeding value. |
| | release of these breeding values which will be known as ABV(ig)s. | |
| Jersey Ancestry | A collaborative effort between the Dairy Futures CRC, ADHIS, Jersey | A reliability boost of 1-8% for Jersey ABVs (depending on the |
| Project | Australia, farmers and Al organisation – has accumulated genotypes | trait) means farmers can have more confidence when selecting |
| | an almost 1000 bulls | bulls using $\Delta P / (\alpha)$ s |
| Bull conctuning | on almost 1000 bulls. | bulls using ABV(g)s. |



In June 2014 ADHIS announced the appointment of Timothy Hancock to a newly created statistician role at ADHIS. In this role, Tim will support ADHIS Geneticist and team leader Gert Nieuwhof and the technical team to assist in the ongoing R&D activities surrounding genomics, genomic testing services and new traits. Tim is familiar in working within R&D groups having led international research teams and supervised masters and PhD candidates. Tim's mix of skills and expertise will complement the ADHIS team well.

ADHIS Board and Committees

ADHIS Board of Management

The Board met seven times during the year to govern the activities of ADHIS so that dairy farmers can maximise their opportunity to benefit from genetic improvement.

Members

Adrian Drury (Chairman), Lyndon Cleggett, Daryl Hoey, John Harlock, Matthew Shaffer, Stuart Tweddle (retired Nov 2014), Jock Macmillan(retired Nov 2014), James Neal (appointed Nov 2014), Ian Cobbledick (appointed Nov 2014), Daniel Abernethy (General Manager and Secretary).

ADHIS staff

Daniel Abernethy, ADHIS General Manager

Glen Barrett, Operations Manager

Genetic Evaluation National Data and Database Service

Gert Nieuwhof, Geneticist and Team Leader

Kon Konstantinov, Statistician Timothy Hancock, Statistician

Judith Schweitzer, Information Scientist Paul Koh, Data and Services Manager

Erica Jewell, Data and Services Manager **Education and Extension**

- Michelle Axford, Extension Manager
- Peter Williams, Extension Officer
- Sarah Saxton, Extension Officer

Industry consultation

Effective industry consultation underpins the ADHIS Strategic Plan. ADHIS achieves industry consultation across its activity areas through its committees, specific meetings with individuals and organisations, and regular stakeholder meetings. ADHIS values the input that it receives through the following committees and discussion forums.

Stakeholder meetings

In 2014 ADHIS hosted a number of industry technical meetings, participated in the HIISSG overall strategy including the genomic pipeline working group, and helped establish a new type taskforce. These meetings provide ADHIS with a forum to discuss genetics and data in detail and for open discussion.

Genetics Committee

The Genetics Committee brings together scientists from a number of organisations to review genetic developments within ADHIS.

Members

Prof. Mike Goddard (Chairman, University of Melbourne), Assoc. Prof. Julius Van der Werf (University of New England), Dr Bruce Tier (University of New England), Dr Rob Woolaston, Dr Mekonnen Haile-Mariam (Department of Environment and Primary Industries), Assoc Prof Ben Hayes (Department of Environment and Primary Industries), Dr Kevin Beard (ADHIS Consultant), Dr Gert Nieuwhof (ADHIS), Dr Kon Konstantinov (ADHIS), Daniel Abernethy (ADHIS) with support from Dr Jennie Pryce (Department of Environment and Primary Industries).

Type assessment committee

On an annual basis, meetings are held with Holstein Australia and Jersey Australia, two breed societies that provide linear type data to ADHIS. Linear Type Evaluations for the coming year are reviewed, with improvements made to the organisational aspects of data collection that should improve the amount of data collected.

Record Standards committee

The Records Standards Committee provides representatives from data processing centres a forum to discuss data issues relating to herd improvement records and genetic evaluation.

Members

Dr Matthew Shaffer (Chair of ADHIS Records & Standards Committee), Mr John Stevenson (Dairy Express), Mr Peter Nish (Tasherd), Mr Frank Treasure (Farmwest), Dr Mike Larcombe (Mistro Group), Mr David Parkinson (AUSherd), Dr Gert Nieuwhof (ADHIS), Mr Paul Koh (ADHIS), Mr Daniel Abernethy (ADHIS).

National Breeding Objective Taskforce

The National Breeding Objective (NBO) taskforce was established in January 2014 to monitor outputs of the review process, to provide direction and to ensure wider input from farmers and industry was maintained throughout the review. The taskforce met eight times throughout 2014 at key stages of the review.

Members

Joanne Dickson(Dairy Farmer), Graeme Gillan (NHIA, Holstein Australia), Patrick Glass (Dairy Farmer, breed society representative), Daryl Hoey (Dairy Farmer, Australian Dairyfarmers), Mike Huth (NHIA, CRV Australia), Ray Kitchen (Dairy Farmer), James Neal (Dairy Farmer), Matthew Radford (Dairy Farmer), Matthew Shaffer (Dairy Australia), Peter Thurn (NHIA, Genetics Australia).

Partner project



Is InCalf still relevant for my herd?



Dr Richard Shepherd InCalf Project Leader 03 5147 0307 richard@herdhealth. com.au

Dr Barry Zimmermann has recently retired as InCalf Project Leader after seven productive years. Dr Richard Shephard has taken over Barry's role and InCalf Project Consultant Dr Andrew Perry ably supports him. Dairy Australia would like to thank Barry for his efforts – especially establishing, updating and delivery of information and training on reproduction to and for Australian dairy farmers.

Change provides an opportunity to review and revisit the objectives and purpose of the InCalf initiative. Infertility was recognised as a significant cost to the dairy industry in the early 1990s but the drivers of the decline in herd fertility and the gaps in knowledge were poorly understood. This was the primary reason for the establishment of the InCalf project.

The early InCalf work defined the key drivers of reproduction: calf and heifer management, body condition and nutrition, heat detection, AI and sire selection, bull management, and cow health. This work culminated in 2003 in the world-recognised InCalf Book for Dairy Farmers and supporting extension material. A major project for 2015 will be to update the InCalf Book (and ancillary material) to reflect current herd performance and objectives.

For many farms, the 2003-based performance targets that are presented in the InCalf Book appear daunting if applied against their current herd performance measures. Identifying areas for change, prioritising actions and deciding where and how to start can be overwhelming for many farmers. InCalf is therefore focusing on the development of specialist skills among a range of herd reproduction advisers through the implementation in 2014 of 110 ReproRight - a new advanced year-long training course in reproduction investigation and management. ReproRight covers all aspects of dairy reproduction, including developing diagnostic skills and ensuring practical application to solve real farm problems. The first group of 13 advisers graduated in 2014 and they are already increasing their reproductive work with farmers. We encourage you to contact a local Repro Right-trained adviser – a list is available on

the Dairy Australia website – to help you with your herd. A local ReproRight trained adviser will be a resource for your farm.

In addition, InCalf is also making it easier for farmers to take charge of their herd's reproductive performance with a series of hour-long webinars providing training, information and access to experts on oestrus synchrony and heat detection. Participants could attend by computer or smart phone, set-up was easy and these were well received by farmers. Webinars help overcome the tyranny of distance, allow efficient use of farmer's time and can bring expert speakers to all places. We have designed them to be interactive (questions are encouraged) and Dairy Australia will be using this medium more and more in the future.

While many factors have contributed to the decline in reproductive performance on individual farms there is clear evidence for the role of genetics in reversing the trend. A persistent and consistent focus on only using AI bulls with daughter fertility ABV's greater than 100 will improve herd fertility across the industry. Start today in your herd.

For more information contact Richard Shephard, InCalf Project Leader, 03 5147 0307, or Kathryn Davis, Dairy Australia Program Manager, Animal Health & Fertility, kdavis@dairyaustralia.com.au.

Figure 2: Average daughter fertility ABV of Holstein cows by year of birth.



Partner project

Update on Countdown 2020



National BMCC Results - 2013

Maintaining milk quality remains a focus of every dairy business. A dairy farmer once told me, "as soon as you think you are on top of your mastitis, you are not" signifying the importance of keeping a close eye on the spread of mastitis, in amongst all the other work!

The most recent analysis of national Bulk Milk Cell Count (BMCC) data for the 2013 calendar year found ongoing improvement in the proportion of farms with an annual average BMCC of less than 250,000 cells/mL (67.0% compared with 64.4% in 2012).

Although it is encouraging to see these improvements, the farms with an annual average cell count above 400,000 remain a concern, especially in light of the rising demand for higher quality milk. Many processors are also tightening penalties for supplying milk with high BMCC or microbial downgrades and discarding milk with high BMCC.

Quality Data is Key

Obtaining the maximum value with herd test data is a challenge that we need to address. In my role as a milk quality adviser, a key component of any herd investigation or ongoing monitoring is providing data in a form that is easily interpreted by the dairy farmer.

The Mastitis Focus Report (MFR) developed by the Countdown project brings together individual cell count data and clinical mastitis information. The value of the MFR report is enhanced if clinical mastitis information from the herd is regularly entered into the farm's dairy software program. Farmers and veterinarians need further encouragement to increase the use of this very well designed tool for investigating problems but mainly monitoring the spread of mastitis.

Often when looking at milk quality data on a particular farm the warning signs of a serious deterioration in milk quality can be seen well before the farmer requests help. This begs the question, how can we supply critical information to farmers in a timely manner? This applies mainly to individual cow cell count data (ICCC) but there is also scope for better analysis and delivery of BMCC data routinely collected by milk processors.

One of the advantages of regular herd testing is that over time, the accumulation of data builds into a more accurate representation of the herd's performance. Even in herds with excellent data, well presented information obtained from herd testing can help farmers to make better decisions. We all need to continue to build a strong case for regular herd testing to capture these significant benefits.

National Breeding Objectives

It is encouraging to see mastitis resistance identified as one of the key priority traits in the recent NBO review by ADHIS. The emphasis on this genetic trait in all three of the new breeding indices will complement well the Countdown work on the management and environmental factors that influence mastitis risk.



Mark Humphris Project Leader Countdown Downunder 0428 561 440 mark@themilkroad. com.au





Partner project



Dairy Futures CRC Report



Dr David Nation, CEO, Dairy Futures CRC

Real farm data driving improved fertility

This year, Dairy Futures CRC began a research effort that will play an important role in improving Australia's genetic evaluation system.

Ginfo (Genomic Information herds) is a two-year research project that involves the CRC actively working with 100 dairy herds (about 30,000 cows) to inject herd records and genotypes into the national genomic reference set. The participating herds are providing high-quality records that are crucial for making sure ABVs best represent performance under Australian conditions.

The 30,000 cows being tested will become 'reference animals': their performance data and their DNA sequence will help inform future genomic tests. The breadth of knowledge from these cows will also provide a number of other benefits, enabling scientists to test new methods that improve the prediction of a cow's genetic merit, and technology developers to produce more relevant cow tests.

The *Ginfo* project is working to improve the reliability of all genomic analysis, but has a specific focus on fertility (by keeping more detailed records of all cows in *Ginfo* herds) and type (through conformation assessments of *Ginfo*-nominated cows during their first lactation). Additionally, the herds participating in the *Ginfo* project provide a platform for the *Health Data for Healthy Cows* project, recently funded by the Gardiner Foundation, which focuses on cow health by collecting more detailed health records to assess the role of genetics and genomic predictions in preventing major illnesses.

The *Ginfo* project has progressed well, and this is largely due to the energetic cooperation of the participating farmers from across Australia. All nominated 100 herds have been visited, with the initial requirement of tail hair sampling completed, as scheduled, and it is pleasing that sampling has caused little to no delays in normal milking routines. We have received around 30,000 tail hair samples, and have more than 20,000 in tubes in preparation for DNA extraction and genotyping. I would also like to acknowledge the active support of Holstein Australia, the Department of Environment and Primary Industries Victoria, the ADHIS, Dairy Australia and participating veterinary clinics.

Ginfo is building a rich data resource that will provide multiple benefits for the dairy industry. Researchers are testing the DNA samples from the *Ginfo* cows to find ways to reduce the cost of future DNA tests. Our ambition is to halve the laboratory costs for DNA tests, making it affordable for all commercial cattle in Australia, and ushering in a new era of better informed decision-making based on the genetic merit of dairy cattle.

Other achievements

While launching *Ginfo* has been an important project this year, our work to create rapid improvements in the Australian dairy herd has progressed in multiple other areas. We have now sequenced the DNA of more than 1100 ancestor sires, working with 20 international partners. We are using the sequence data to improve routine use of DNA to predict genetic merit. We have also completed development of a new feed efficiency trait, ready for publication by the ADHIS in April 2015.

I encourage you to visit our website, where you can find more information and view a video tour of our research facility at AgriBio (www.dairyfuturescrc.com.au).

Herd Recording Statistics

The practice of herd recording delivers reliable information for on-farm decision making. Every year, this data is compiled and published to facilitate a broader analysis of herd and production trends. Tables 1-13 describe production trends by age, breed, mating type and region. As some data in this report dates back to the 1930s, you will find a rich resource describing Australia's changing herd.

Statistics for previous years and further file formats are available at www.adhis.com.au

| Table 1 : National | Table 1 : National and State Totals and Production Averages. | | | | | | | | | | | | | |
|--------------------|--|----------------------------|------------------------------|---------------|--------------|---------------------|----------|-----------|--------------|---------------|-----------------------------|--|--|--|
| State | Number | Hero | ds and Cows | Recorded | | Production Averages | | | | | | | | |
| | of Herds | Included in Averages | Excluded from Averages | Total Cows | Herd Size | Milk litres | Fat % | Fat kg | Protein % | Protein kg | Lactation Length days | | | |
| Victoria | 1,892 | 292,403 | 117,340 | 409,743 | 216.6 | 6,709 | 4.0 | 270 | 3.3 | 225 | 324 | | | |
| New South Wales | 418 | 76,335 | 21,374 | 97,709 | 233.8 | 7,614 | 3.9 | 296 | 3.3 | 248 | 343 | | | |
| Queensland | 234 | 23,843 | 12,162 | 36,005 | 153.9 | 6,124 | 3.9 | 241 | 3.2 | 196 | 329 | | | |
| South Australia | 199 | 38,473 | 7,918 | 46,391 | 233.1 | 7,497 | 3.8 | 283 | 3.3 | 244 | 336 | | | |
| Tasmania | 164 | 35,556 | 17,369 | 52,925 | 322.7 | 6,170 | 4.0 | 246 | 3.4 | 208 | 300 | | | |
| Western Australia | 116 | 25,851 | 4,475 | 30,326 | 261.4 | 7,593 | 3.8 | 286 | 3.1 | 239 | 339 | | | |
| Australia | 3,023 | 492,461 | 180,638 | 673,099 | 222.7 | 6,890 | 4.0 | 273 | 3.3 | 228 | 327 | | | |
| Victorian regions | | | | | | | | | | | | | | |
| Northern | 733 | 107,308 | 41,254 | 148,562 | 202.7 | 7,230 | 4 | 287 | 3.3 | 241 | 333 | | | |
| Eastern | 675 | 107,338 | 42,489 | 149,827 | 222.0 | 6,279 | 4 | 252 | 3.4 | 211 | 320 | | | |
| Western | 484 | 77,757 | 33,597 | 111,354 | 230.1 | 6,585 | 4.1 | 270 | 3.4 | 222 | 319 | | | |

| Table 1a : Na | Table 1a : National Totals and Production Averages 1999 to 2014. | | | | | | | | | | | | | |
|---------------|--|-------------------------|------------------------------|---------------|--------------|---------------------|----------|-----------|--------------|---------------|-----------------------------|--|--|--|
| Year | Number of Herds | Her | ds and Cows | Recorded | | Production Averages | | | | | | | | |
| | | Included in Averages | Excluded from Averages | Total Cows | Herd Size | Milk litres | Fat % | Fat kg | Protein % | Protein kg | Lactation Length days | | | |
| 1999/2000 | 6,976 | 947,104 | 81,129 | 1,028,233 | 147.4 | 5,691 | 4 | 230 | 3.3 | 187 | 302 | | | |
| 2000/2001 | 7,405 | 940,712 | 286,248 | 1,226,960 | 165.7 | 5,682 | 4 | 229 | 3.3 | 186 | 302 | | | |
| 2001/2002 | 6,930 | 888,497 | 303,269 | 1,191,766 | 172 | 6,027 | 4 | 243 | 3.3 | 200 | 307 | | | |
| 2002/2003 | 6,358 | 842,113 | 335,786 | 1,177,899 | 185.3 | 5,877 | 4 | 235 | 3.3 | 193 | 303 | | | |
| 2003/2004 | 5,704 | 722,074 | 298,727 | 1,020,801 | 179 | 6,048 | 4.0 | 242 | 3.3 | 201 | 310 | | | |
| 2004/2005 | 5,080 | 725,374 | 224,352 | 949,726 | 187 | 6,257 | 4.0 | 251 | 3.3 | 207 | 314 | | | |
| 2005/2006 | 4,746 | 701,852 | 208,536 | 910,388 | 191.8 | 6,402 | 4.0 | 255 | 3.3 | 212 | 316 | | | |
| 2006/2007 | 4,462 | 655,212 | 222,592 | 877,804 | 196.7 | 6,452 | 4.0 | 257 | 3.3 | 216 | 312 | | | |
| 2007/2008 | 3,966 | 578,263 | 207,199 | 785,462 | 198 | 6,596 | 4.0 | 264 | 3.3 | 220 | 321 | | | |
| 2008/2009 | 3,779 | 566,029 | 206,694 | 772,723 | 204.5 | 6,645 | 4.1 | 270 | 3.4 | 223 | 318 | | | |
| 2009/2010 | 3,503 | 522,869 | 201,400 | 724,269 | 206.8 | 6,680 | 4.0 | 270 | 3.3 | 223 | 323 | | | |
| 2010/2011 | 3,359 | 518,675 | 186,915 | 705,590 | 210.1 | 6,813 | 4.0 | 273 | 3.3 | 228 | 323 | | | |
| 2011/2012 | 3,301 | 525,908 | 205,174 | 731,082 | 221.5 | 6,930 | 4.0 | 274 | 3.3 | 231 | 324 | | | |
| 2012/2013 | 3,173 | 511,923 | 195,896 | 707,819 | 223.1 | 6,881 | 4.0 | 272 | 3.3 | 229 | 322 | | | |
| 2013/2014 | 3,023 | 492,461 | 180,638 | 673,099 | 222.7 | 6,890 | 4.0 | 273 | 3.3 | 228 | 327 | | | |

National Herd Recording Statistics 2013-2014

| Table 2: Number of herds in fat production categories by region. | | | | | | | | | | | | | |
|--|-------|-------|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|-------|--|--|
| State | Total | | Average fat production (kg per cow) | | | | | | | | | | |
| | herds | < 125 | 125-149 | 150-174 | 175-199 | 200-224 | 225-249 | 250-274 | 275-299 | 300-324 | > 324 | | |
| Victoria | 1,892 | 33 | 36 | 59 | 108 | 175 | 244 | 327 | 297 | 199 | 148 | | |
| New South Wales | 418 | 3 | 8 | 10 | 22 | 30 | 47 | 65 | 72 | 55 | 57 | | |
| Queensland | 234 | 7 | 6 | 15 | 26 | 23 | 24 | 18 | 10 | 8 | 13 | | |
| South Australia | 199 | 1 | 2 | 1 | 12 | 16 | 28 | 35 | 29 | 37 | 30 | | |
| Tasmania | 164 | 5 | 2 | 14 | 17 | 28 | 29 | 16 | 12 | 14 | 9 | | |
| Western Australia | 116 | 1 | 0 | 0 | 4 | 7 | 9 | 18 | 25 | 20 | 22 | | |
| Australia | 3,023 | 50 | 54 | 99 | 189 | 279 | 381 | 479 | 445 | 333 | 279 | | |
| Victorian regions | | | | | | | | | | | | | |
| Northern | 733 | 6 | 9 | 14 | 29 | 42 | 75 | 112 | 146 | 112 | 91 | | |
| Eastern | 675 | 13 | 19 | 28 | 56 | 84 | 107 | 139 | 93 | 36 | 15 | | |
| Western | 484 | 14 | 8 | 17 | 23 | 49 | 62 | 76 | 58 | 51 | 42 | | |

| Table 3: Number of herds in protein production categories by region. | | | | | | | | | | | | | |
|--|-------|---|---------|---------|---------|---------|---------|---------|---------|---------|-------|--|--|
| State | Total | Average protein production (kg per cow) | | | | | | | | | | | |
| | herds | < 100 | 100-124 | 125-149 | 150-174 | 175-199 | 200-224 | 225-249 | 250-274 | 275-299 | > 299 | | |
| Victoria | 1,892 | 34 | 46 | 93 | 174 | 269 | 353 | 306 | 202 | 96 | 53 | | |
| New South Wales | 418 | 4 | 11 | 12 | 33 | 55 | 60 | 78 | 53 | 41 | 22 | | |
| Queensland | 234 | 6 | 8 | 13 | 33 | 29 | 26 | 18 | 10 | 2 | 5 | | |
| South Australia | 199 | 0 | 2 | 5 | 18 | 27 | 33 | 30 | 36 | 30 | 10 | | |
| Tasmania | 164 | 3 | 5 | 22 | 23 | 34 | 22 | 11 | 11 | 4 | 11 | | |
| Western Australia | 116 | 1 | 0 | 0 | 8 | 10 | 16 | 32 | 23 | 12 | 4 | | |
| Australia | 3,023 | 48 | 72 | 145 | 289 | 424 | 510 | 475 | 335 | 185 | 105 | | |
| Victorian regions | | | | | | | | | | | | | |
| Northern | 733 | 5 | 14 | 23 | 49 | 69 | 131 | 142 | 114 | 54 | 35 | | |
| Eastern | 675 | 13 | 23 | 46 | 77 | 122 | 146 | 99 | 36 | 19 | 9 | | |
| Western | 484 | 16 | 9 | 24 | 48 | 78 | 76 | 65 | 52 | 23 | 9 | | |

Over the past ten years, milksolids production per herd recorded cow increased 9.4%

| Table 4: Pro | Table 4: Production averages by age group. | | | | | | | | | | | | |
|--------------|--|-------------|---|-----|------|-----|-----|--|--|--|--|--|--|
| Age group | Number of | | Production averages | | | | | | | | | | |
| | COWS | Milk litres | Ik litres Fat % Fat kg Protein % Protein kg lengt | | | | | | | | | | |
| 2 Year Old | 87,898 | 6,142 | 3.90 | 240 | 3.31 | 203 | 331 | | | | | | |
| 3 Year Old | 84,524 | 6,760 | 3.95 | 267 | 3.34 | 226 | 330 | | | | | | |
| Mature Cow | 320,039 | 7,130 | 3.97 | 283 | 3.30 | 236 | 325 | | | | | | |
| Total | 492,461 | 6,890 | 3.96 | 273 | 3.31 | 228 | 327 | | | | | | |

| Table 5: Pro | Table 5: Production averages by age group and mating type. | | | | | | | | | | | | |
|--------------|--|-------------------------|----------------------|-------------------------|----------------------|--|--|--|--|--|--|--|--|
| Age group | Number | Average | fat (kg) | Average protein (kg) | | | | | | | | | |
| | of cows | Artificially bred stock | Naturally bred stock | Artificially bred stock | Naturally bred stock | | | | | | | | |
| 2 Year Old | 87,898 | 245 | 227 | 209 | 191 | | | | | | | | |
| 3 Year Old | 84,524 | 277 | 248 | 235 | 207 | | | | | | | | |
| Mature Cow | 320,039 | 299 | 263 | 249 | 218 | | | | | | | | |
| Total | 492,461 | 283 | 256 | 238 | 213 | | | | | | | | |

| Table 6 : Production averages by percentage of artificially bred cows in herds. | | | | | | | | | | | | |
|---|-----------------|-------------|--------------------|------------|--|--|--|--|--|--|--|--|
| Percentage of artificially | Number of herds | | Production average | S | | | | | | | | |
| bred cows in herd | | Milk litres | Fat kg | Protein kg | | | | | | | | |
| < 10 | 539 | 5,921 | 238 | 197 | | | | | | | | |
| 10-19 | 137 | 6,268 | 247 | 208 | | | | | | | | |
| 20-29 | 143 | 6,546 | 256 | 215 | | | | | | | | |
| 30-39 | 167 | 6,721 | 264 | 223 | | | | | | | | |
| 40-49 | 217 | 6,533 | 262 | 217 | | | | | | | | |
| 50-59 | 262 | 6,871 | 276 | 227 | | | | | | | | |
| 60-69 | 320 | 7,080 | 278 | 233 | | | | | | | | |
| 70-79 | 368 | 7,404 | 291 | 243 | | | | | | | | |
| 80-89 | 352 | 7,245 | 284 | 241 | | | | | | | | |
| > 89 | 518 | 7,242 | 287 | 240 | | | | | | | | |
| Total | 3,023 | 6,890 | 273 | 228 | | | | | | | | |

More than 90% of herd recorded Aussie Red cows have an AI sire. This compares to 70% of Holstein and 63% of Jersey cows.

| Table 7: Production averages by breed. | | | | | | | | | | | | | |
|--|-----------|-------------|-------|--------|----------------|------------|-------------|--|--|--|--|--|--|
| Breed | Number of | | | Produ | iction average | s | | | | | | | |
| | cows | Milk litres | Fat % | Fat kg | Protein % | Protein kg | Lactation | | | | | | |
| | | | | | | | length days | | | | | | |
| Holstein | 317,290 | 7,406 | 3.83 | 283 | 3.24 | 240 | 333 | | | | | | |
| Jersey | 55,205 | 5,279 | 4.76 | 251 | 3.67 | 194 | 316 | | | | | | |
| Holstein/Jersey Cross | 22,786 | 6,274 | 4.32 | 271 | 3.48 | 218 | 314 | | | | | | |
| Guernsey | 1,273 | 5,586 | 4.33 | 242 | 3.38 | 189 | 335 | | | | | | |
| Ayrshire | 2,690 | 5,734 | 4.14 | 238 | 3.41 | 196 | 315 | | | | | | |
| Dairy Shorthorn | 365 | 5,175 | 3.88 | 201 | 3.26 | 169 | 301 | | | | | | |
| Illawarra | 5,496 | 6,390 | 3.93 | 251 | 3.26 | 208 | 324 | | | | | | |
| Unknown Breed | 69,979 | 6,303 | 3.96 | 249 | 3.33 | 210 | 318 | | | | | | |
| Simmental | 81 | 6,078 | 3.95 | 240 | 3.32 | 202 | 339 | | | | | | |
| Red Poll | 69 | 3,643 | 5.04 | 184 | 3.75 | 136 | 330 | | | | | | |
| Meuse-Rhine-Issel | 67 | 5,388 | 4.17 | 225 | 3.68 | 198 | 294 | | | | | | |
| Aust Milking Zebu | 8 | 6,832 | 3.76 | 257 | 3.15 | 215 | 375 | | | | | | |
| Commercial Dairy | 3 | 5,850 | 4.24 | 248 | 3.27 | 191 | 298 | | | | | | |
| Aust Red Breed | 13,581 | 6,215 | 4.12 | 256 | 3.42 | 213 | 314 | | | | | | |
| Sahiwal | 0 | 0 | 0.00 | 0 | 0.00 | 0 | 0 | | | | | | |
| Brown Swiss | 3,548 | 6,323 | 4.01 | 254 | 3.42 | 216 | 333 | | | | | | |
| Aust Friesian Sahiwal | 20 | 7,180 | 3.95 | 283 | 3.29 | 236 | 321 | | | | | | |
| Total | 492,461 | 6,890 | 3.96 | 273 | 3.31 | 228 | 327 | | | | | | |

The distribution of breeds remains stable compared to 2012/2013.



Year of analysis

<50% of the herd sired by AI</p>

50-79% herd sired by AI

>80% herd sired by AI

Figure 4: Herds with

replacements with

a recorded AI sire

has declined over

the past decade.

more than 50%

Al and herd test costs average 2.1% of total farm costs.

(DEPI Farm Monitor Project 2013/2014)

| Table 8: Pr | Table 8: Production averages by month of calving. | | | | | | | | | | | | |
|-------------|---|------------|-------------|---------------------|--------|-----------|------------|-------------|--|--|--|--|--|
| Month of | Number of | % of total | | Production averages | | | | | | | | | |
| calving | COWS | | Milk litres | Fat % | Fat kg | Protein % | Protein kg | length days | | | | | |
| January | 16,003 | 3.2 | 7,060 | 3.90 | 275 | 3.26 | 230 | 343 | | | | | |
| February | 28,799 | 5.8 | 7,216 | 3.89 | 281 | 3.30 | 238 | 343 | | | | | |
| March | 52,480 | 10.7 | 7,238 | 3.90 | 282 | 3.32 | 240 | 341 | | | | | |
| April | 51,133 | 10.4 | 7,184 | 3.91 | 281 | 3.32 | 239 | 338 | | | | | |
| Мау | 45,618 | 9.3 | 7,017 | 3.92 | 275 | 3.31 | 233 | 329 | | | | | |
| June | 37,152 | 7.5 | 6,828 | 3.97 | 271 | 3.33 | 227 | 323 | | | | | |
| July | 49,556 | 10.1 | 6,537 | 4.03 | 263 | 3.36 | 220 | 317 | | | | | |
| August | 83,969 | 17.1 | 6,627 | 4.03 | 267 | 3.35 | 222 | 311 | | | | | |
| September | 66,141 | 13.4 | 6,760 | 3.99 | 270 | 3.29 | 223 | 322 | | | | | |
| October | 32,912 | 6.7 | 6,797 | 3.96 | 269 | 3.24 | 220 | 327 | | | | | |
| November | 16,579 | 3.4 | 6,931 | 3.94 | 273 | 3.23 | 224 | 340 | | | | | |
| December | 12,119 | 2.5 | 7,037 | 3.90 | 274 | 3.22 | 227 | 343 | | | | | |
| Australia | 492,461 | 100 | 6,890 | 3.96 | 273 | 3.31 | 228 | 327 | | | | | |

Figure 5: Distribution of breeds.



Figure 6: Distribution of calvings by month.



National Herd Recording Statistics 2013-2014

Farmers often express a sense of satisfaction that comes from seeing healthy, productive older cows in their herd while frustration builds when younger cows need to be culled for various reasons. To further understand trends in age at first calving and longevity in the Australian herd, ADHIS analysed the age of herd recorded cows and the results are presented in Figures 7-9.



Figure 7: Age at first calving of Holstein and Jersey cows.

70 60 50 Age (months) 40 30 20 10 0 Australian Ayrshire Brown Holstein/ Illawarra Guernsey Holstein Jersey **Red Breed** Swiss Jersey



Figure 8: Average age of cows at their most recent calving.

Figure 9: Age distribution of herd recorded cows by breed (at most recent calving).

National Herd Recording Statistics 2013-2014

29% of herd recorded herds have most of their herd sired by Al.

| Table 9: Production averages by breed, age group, mating type and registration. | | | | | | | | | | | | |
|---|------------------|-----------------------------------|--------|-------|--------|---------|---------|-------------|--|--|--|--|
| Breed | Туре | ype Number of Production averages | | | | | | | | | | |
| | | COWS | Milk | Fat % | Fat kg | Protein | Protein | Lactation | | | | |
| | | | litres | | | % | kg | length days | | | | |
| Holstein | 2-year old | 58,899 | 6,558 | 3.74 | 246 | 3.25 | 213 | 337 | | | | |
| | 3-year old | 58,173 | 7,246 | 3.80 | 275 | 3.27 | 237 | 336 | | | | |
| | Mature cow | 200,218 | 7,702 | 3.85 | 297 | 3.24 | 249 | 331 | | | | |
| | Total | 317,290 | 7,406 | 3.83 | 283 | 3.24 | 240 | 333 | | | | |
| | Artifically bred | 222,458 | 7,621 | 3.81 | 290 | 3.24 | 247 | 335 | | | | |
| | Naturally bred | 94,832 | 6,904 | 3.88 | 268 | 3.25 | 224 | 328 | | | | |
| | Pure bred | 57,465 | 8,252 | 3.75 | 309 | 3.19 | 263 | 351 | | | | |
| | Grade | 259,825 | 7,220 | 3.85 | 278 | 3.26 | 235 | 329 | | | | |
| Jersey | 2-year old | 11,627 | 4,808 | 4.72 | 227 | 3.62 | 174 | 319 | | | | |
| | 3-year old | 10,806 | 5,136 | 4.77 | 245 | 3.69 | 189 | 316 | | | | |
| | Mature cow | 32,772 | 5,493 | 4.76 | 262 | 3.68 | 202 | 314 | | | | |
| | Total | 55,205 | 5,279 | 4.76 | 251 | 3.67 | 194 | 316 | | | | |
| | Artifically bred | 35,252 | 5,396 | 4.82 | 260 | 3.70 | 200 | 317 | | | | |
| | Naturally bred | 19,953 | 5,072 | 4.63 | 235 | 3.61 | 183 | 314 | | | | |
| | Pure bred | 13,615 | 5,635 | 4.84 | 273 | 3.70 | 209 | 329 | | | | |
| | Grade | 41,590 | 5,162 | 4.73 | 244 | 3.66 | 189 | 311 | | | | |
| Holstein/Jersey | 2-year old | 4,910 | 5,534 | 4.28 | 237 | 3.45 | 191 | 319 | | | | |
| Cross | 3-year old | 4,248 | 6,095 | 4.35 | 265 | 3.51 | 214 | 313 | | | | |
| | Mature cow | 13,628 | 6,596 | 4.33 | 286 | 3.48 | 230 | 312 | | | | |
| | Total | 22,786 | 6,274 | 4.32 | 271 | 3.48 | 218 | 314 | | | | |
| | Artifically bred | 9,479 | 6,439 | 4.36 | 281 | 3.52 | 226 | 314 | | | | |
| | Naturally bred | 13,307 | 6,156 | 4.30 | 265 | 3.45 | 213 | 314 | | | | |
| | Pure bred | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Grade | 22,786 | 6,274 | 4.32 | 271 | 3.48 | 218 | 314 | | | | |
| Guernsey | 2-year-old | 238 | 4,983 | 4.37 | 218 | 3.35 | 167 | 339 | | | | |
| | 3-year-old | 279 | 5,714 | 4.37 | 250 | 3.37 | 193 | 340 | | | | |
| | Mature cow | 756 | 5,728 | 4.30 | 246 | 3.39 | 194 | 332 | | | | |
| | Total | 1,273 | 5,586 | 4.33 | 242 | 3.38 | 189 | 335 | | | | |
| | Artifically bred | 527 | 5,679 | 4.39 | 249 | 3.38 | 192 | 337 | | | | |
| | Naturally bred | 746 | 5,521 | 4.28 | 237 | 3.37 | 186 | 334 | | | | |
| | Pure bred | 190 | 5,316 | 4.28 | 227 | 3.31 | 176 | 347 | | | | |
| | Grade | 1,083 | 5,633 | 4.34 | 244 | 3.39 | 191 | 333 | | | | |
| Ayrshire | 2-year-old | 430 | 5,081 | 4.14 | 210 | 3.38 | 172 | 326 | | | | |
| | 3-year-old | 534 | 5,364 | 4.26 | 229 | 3.47 | 186 | 315 | | | | |
| | Mature cow | 1,726 | 6,012 | 4.11 | 247 | 3.41 | 205 | 313 | | | | |
| | Total | 2,690 | 5,734 | 4.14 | 238 | 3.41 | 196 | 315 | | | | |
| | Artifically bred | 1,539 | 5,821 | 4.19 | 244 | 3.47 | 202 | 317 | | | | |
| | Naturally bred | 1,151 | 5,618 | 4.07 | 229 | 3.34 | 188 | 313 | | | | |
| | Pure bred | 632 | 5,957 | 4.09 | 243 | 3.30 | 197 | 334 | | | | |
| | Grade | 2,058 | 5,666 | 4.16 | 236 | 3.45 | 196 | 310 | | | | |

| Table 9: Produc | ction averages k | by breed, age | e group, | mating | type an | d registr | ation (contir | nued). |
|-----------------|-------------------------|---------------|----------|--------|---------|-------------|---------------|-------------|
| Breed | Туре | Number of | | | Proc | luction ave | rages | |
| | | COWS | Milk | Fat % | Fat kg | Protein | Protein | Lactation |
| | | | litres | | | % | kg | length days |
| Illawarra | 2-year-old | 878 | 5,846 | 3.92 | 229 | 3.27 | 191 | 335 |
| | 3-year-old | 1,098 | 6,049 | 3.95 | 239 | 3.29 | 199 | 331 |
| | Mature cow | 3,520 | 6,633 | 3.93 | 261 | 3.25 | 216 | 319 |
| | Total | 5,496 | 6,390 | 3.93 | 251 | 3.26 | 208 | 324 |
| | Artifically bred | 2,817 | 6,630 | 3.96 | 262 | 3.27 | 217 | 327 |
| | Naturally bred | 2,679 | 6,138 | 3.89 | 239 | 3.24 | 199 | 321 |
| | Pure bred | 1,728 | 6,739 | 3.84 | 259 | 3.22 | 217 | 330 |
| | Grade | 3,768 | 6,231 | 3.97 | 248 | 3.28 | 205 | 321 |
| Unknown Breed | 2-year-old | 7,034 | 5,789 | 3.92 | 227 | 3.33 | 193 | 320 |
| | 3-year-old | 5,651 | 6,185 | 3.94 | 244 | 3.35 | 207 | 318 |
| | Mature cow | 57,294 | 6,378 | 3.96 | 253 | 3.33 | 212 | 318 |
| | Total | 69,979 | 6,303 | 3.96 | 249 | 3.33 | 210 | 318 |
| | Artifically bred | 1,810 | 7,529 | 3.84 | 289 | 3.32 | 250 | 323 |
| | Naturally bred | 68,169 | 6,271 | 3.96 | 248 | 3.33 | 209 | 318 |
| | Pure bred | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Grade | 69,979 | 6,303 | 3.96 | 249 | 3.33 | 210 | 318 |
| Aust. Red Breed | 2-year-old | 3,225 | 5,492 | 4.07 | 224 | 3.40 | 187 | 319 |
| | 3-year-old | 2,950 | 6,027 | 4.15 | 250 | 3.45 | 208 | 316 |
| | Mature cow | 7,406 | 6,604 | 4.13 | 273 | 3.42 | 226 | 312 |
| | Total | 13,581 | 6,215 | 4.12 | 256 | 3.42 | 213 | 314 |
| | Artifically bred | 12,376 | 6,301 | 4.12 | 260 | 3.42 | 216 | 315 |
| | Naturally bred | 1,205 | 5,331 | 4.13 | 220 | 3.39 | 181 | 310 |
| | Pure bred | 1,413 | 7,198 | 3.75 | 270 | 3.39 | 244 | 325 |
| | Grade | 12,168 | 6,100 | 4.17 | 255 | 3.42 | 209 | 313 |
| Brown Swiss | 2-year-old | 559 | 5,507 | 3.95 | 217 | 3.41 | 188 | 332 |
| | 3-year-old | 686 | 6,048 | 3.96 | 239 | 3.45 | 208 | 336 |
| | Mature cow | 2,303 | 6,603 | 4.04 | 267 | 3.41 | 225 | 332 |
| | Total | 3,548 | 6,323 | 4.01 | 254 | 3.42 | 216 | 333 |
| | Artifically bred | 2,478 | 6,353 | 4.06 | 258 | 3.44 | 219 | 334 |
| | Naturally bred | 1,070 | 6,252 | 3.90 | 244 | 3.35 | 210 | 332 |
| | Pure bred | 1,357 | 6,518 | 3.95 | 258 | 3.46 | 225 | 352 |
| | Grade | 2,191 | 6,202 | 4.05 | 251 | 3.38 | 210 | 322 |
| Other Breeds | 2-year-old | 98 | 4,846 | 3.83 | 186 | 3.26 | 158 | 306 |
| | 3-year-old | 99 | 4,985 | 3.92 | 195 | 3.31 | 165 | 317 |
| | Mature cow | 416 | 5,387 | 4.08 | 220 | 3.39 | 182 | 309 |
| | Total | 613 | 5,235 | 4.05 | 210 | 3.37 | 176 | 310 |
| | Artifically bred | 270 | 5,922 | 3.93 | 233 | 3.36 | 199 | 307 |
| | Naturally bred | 343 | 4,695 | 4.10 | 192 | 3.36 | 158 | 312 |
| | Pure bred | 17 | 4,444 | 4.24 | 189 | 3.31 | 147 | 316 |
| | Grade | 596 | 5,258 | 4.01 | 211 | 3.36 | 177 | 310 |

Since 1999, the percentage of cows calving between February to April has almost doubled (from 14 to 27% of cows).

| Table 10: Distribution of ca | alving | s by n | nonth | and re | gion. | | | | | | | |
|------------------------------|--------|--------|-------|--------|---------|---------|----------|---------|-------|-----|-----|-----|
| State | | | | Percen | tage of | cows th | nat calv | ed each | month | | | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| Victoria | 1 | 4 | 11 | 11 | 10 | 8 | 11 | 20 | 14 | 6 | 2 | 1 |
| New South Wales | 7 | 9 | 11 | 9 | 9 | 8 | 9 | 9 | 9 | 8 | 7 | 6 |
| Queensland | 9 | 9 | 11 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 6 | 7 |
| South Australia | 6 | 9 | 11 | 10 | 8 | 6 | 7 | 11 | 13 | 9 | 5 | 4 |
| Tasmania | 1 | 4 | 5 | 7 | 9 | 2 | 9 | 32 | 22 | 8 | 2 | 0 |
| Western Australia | 10 | 11 | 11 | 9 | 8 | 6 | 5 | 8 | 11 | 7 | 5 | 6 |
| Australia | 3 | 6 | 11 | 10 | 9 | 8 | 10 | 17 | 13 | 7 | 3 | 2 |
| Victorian regions | | | | | | | | | | | | |
| Northern | 1 | 3 | 14 | 13 | 7 | 3 | 7 | 22 | 17 | 8 | 3 | 1 |
| Eastern | 1 | 4 | 10 | 9 | 6 | 7 | 16 | 24 | 15 | 5 | 2 | 1 |
| Western | 2 | 6 | 9 | 12 | 18 | 17 | 11 | 9 | 9 | 4 | 1 | 1 |

| Table 11: Product | ion average | es of stud co | ows. | | | | |
|-------------------|-------------|---------------|-------|--------|---------------|------------|-----------------------|
| Breed | Number of | | | Pi | roduction ave | rages | |
| | COWS | Milk litres | Fat % | Fat kg | Protein % | Protein kg | Lactation length days |
| Holstein | 57,465 | 8,252 | 3.75 | 309 | 3.19 | 263 | 351 |
| Jersey | 13,615 | 5,635 | 4.84 | 273 | 3.70 | 209 | 329 |
| Guernsey | 190 | 5,316 | 4.28 | 227 | 3.31 | 176 | 347 |
| Ayrshire | 632 | 5,957 | 4.09 | 243 | 3.30 | 197 | 334 |
| Illawarra | 1,728 | 6,739 | 3.84 | 259 | 3.22 | 217 | 330 |
| Aust Red Breed | 1,413 | 7,198 | 3.75 | 270 | 3.39 | 244 | 325 |
| Brown Swiss | 1,357 | 6,518 | 3.95 | 258 | 3.46 | 225 | 352 |
| Total | 76,400 | 7,675 | 3.95 | 299 | 3.29 | 251 | 346 |

| Table 12: Productio | on average | es of artifici | ally bred | stud co | ows. | | |
|---------------------|------------|----------------|-----------|---------|----------------|------------|-----------------------|
| Breed | Number | | | F | Production ave | erages | |
| | of cows | Milk litres | Fat % | Fat kg | Protein % | Protein kg | Lactation length days |
| Holstein | 47,297 | 8,335 | 3.74 | 311 | 3.19 | 266 | 352 |
| Jersey | 10,737 | 5,691 | 4.84 | 276 | 3.70 | 211 | 329 |
| Guernsey | 101 | 5,493 | 4.20 | 231 | 3.28 | 180 | 357 |
| Ayrshire | 351 | 6,076 | 4.07 | 247 | 3.29 | 200 | 334 |
| Illawarra | 910 | 6,934 | 3.87 | 268 | 3.22 | 223 | 336 |
| Aust Red Breed | 1,369 | 7,217 | 3.74 | 270 | 3.39 | 244 | 325 |
| Brown Swiss | 994 | 6,598 | 3.96 | 261 | 3.46 | 228 | 355 |
| Total | 61,759 | 7,785 | 3.94 | 302 | 3.29 | 254 | 347 |

| Table 13: Vict | orian produ | ction average | ges 1930/1 | 931 – 2013 | 3/2014. | | | |
|----------------|-------------|---------------|------------|-------------|---------|-------------|-----------|------------|
| Year | Total herds | Total cows | Herd size | | Pro | duction ave | rages | |
| | | | | Milk litres | Fat % | Fat kg | Protein % | Protein kg |
| 1930/1935 | 2,984 | 91,328 | 31 | 2,295 | 4.7 | 107 | | |
| 1935/1940 | 2,324 | 80,883 | 35 | 2,210 | 4.9 | 108 | | |
| 1940/1945 | 1,082 | 39,368 | 36 | 2,154 | 4.9 | 105 | | |
| 1945/1950 | 2,329 | 90,015 | 39 | 2,301 | 5.0 | 114 | | |
| 1950/1955 | 3,192 | 141,387 | 44 | 2,284 | 5.0 | 114 | | |
| 1955/1960 | 3,461 | 187,306 | 54 | 2,485 | 5.1 | 126 | | |
| 1960/1965 | 4,003 | 248,791 | 62 | 2,643 | 5.0 | 132 | | |
| 1965/1970 | 5,041 | 368,300 | 73 | 2,793 | 4.9 | 137 | | |
| 1970/1975 | 4,314 | 382,925 | 89 | 2,942 | 4.7 | 139 | | |
| 1975/1980 | 2,456 | 256,744 | 105 | 3,159 | 4.5 | 143 | | |
| 1980/1985 | 3,913 | 423,120 | 108 | 3,471 | 4.5 | 155 | | |
| 1985/1990 | 4,399 | 527,240 | 120 | 4,047 | 4.4 | 180 | 3.3 | 134 |
| 1990/1991 | 4,402 | 568,885 | 129 | 4,245 | 4.4 | 186 | 3.4 | 142 |
| 1991/1992 | 4,061 | 517,760 | 128 | 4,477 | 4.4 | 196 | 3.4 | 150 |
| 1992/1993 | 4,293 | 552,445 | 129 | 4,708 | 4.4 | 205 | 3.4 | 158 |
| 1993/1994 | 4,606 | 604,160 | 131 | 4,962 | 4.3 | 212 | 3.3 | 166 |
| 1994/1995 | 4,591 | 574,674 | 125 | 4,976 | 4.2 | 210 | 3.3 | 164 |
| 1995/1996 | 4,685 | 606,198 | 129 | 5,142 | 4.2 | 215 | 3.3 | 169 |
| 1996/1997 | 4,928 | 619,470 | 126 | 4,984 | 4.2 | 208 | 3.3 | 163 |
| 1997/1998 | 4,328 | 624,428 | 144 | 5,084 | 4.1 | 208 | 3.3 | 167 |
| 1998/1999 | 4,156 | 641,106 | 154 | 5,350 | 4.1 | 220 | 3.3 | 177 |
| 1999/2000 | 3,904 | 622,281 | 159 | 5,570 | 4.1 | 227 | 3.3 | 184 |
| 2000/2001 | 4,267 | 761,219 | 178 | 5,527 | 4.0 | 223 | 3.3 | 182 |
| 2001/2002 | 4,198 | 757,029 | 180 | 5,969 | 4.0 | 240 | 3.3 | 198 |
| 2002/2003 | 3,831 | 738,329 | 193 | 5,705 | 4.0 | 230 | 3.3 | 187 |
| 2003/2004 | 3,414 | 624,002 | 183 | 5,841 | 4.0 | 236 | 3.3 | 194 |
| 2004/2005 | 3,079 | 586,566 | 191 | 6,083 | 4.0 | 245 | 3.3 | 202 |
| 2005/2006 | 2,933 | 572,906 | 195 | 6,205 | 4.0 | 248 | 3.3 | 206 |
| 2006/2007 | 2,775 | 554,136 | 200 | 6,245 | 4.0 | 250 | 3.4 | 209 |
| 2007/2008 | 2,431 | 484,030 | 199 | 6,423 | 4.0 | 259 | 3.3 | 215 |
| 2008/2009 | 2,313 | 478,612 | 207 | 6,458 | 4.1 | 266 | 3.4 | 218 |
| 2009/2010 | 2,127 | 437,811 | 206 | 6,443 | 4.1 | 265 | 3.4 | 217 |
| 2010/2011 | 2,036 | 428,660 | 211 | 6,588 | 4.1 | 268 | 3.4 | 222 |
| 2011/2012 | 2,050 | 453,465 | 221 | 6,731 | 4.0 | 270 | 3.4 | 226 |
| 2012/2013 | 1,977 | 433,383 | 219 | 6,694 | 4.0 | 268 | 3.3 | 224 |
| 2013/2014 | 1,892 | 409,743 | 217 | 6,709 | 4.0 | 270 | 3.3 | 225 |

Australian Breeding Values

Over the past decade, about one-third of productivity improvements achieved by Australian farmers are credited to better genetics. Since ADHIS was established in 1983, farmers have had access to independent information to make breeding choices in the form of Australian Breeding Values (ABVs). ABVs are the best estimate of the genetic merit of animals and reflect the performance of animals in Australian production systems. ABVs are a proven effective tool to improve the genetic merit of herds.

Because the impact of genetics is gradual and compounding it can be difficult to see the benefits, leading some farmers and advisers to question whether ABVs make a difference. ADHIS is committed to demonstrating the value of genetics in improving herd performance through rigorous scientific analysis. In 2011 a thorough analysis of the issues surrounding fertility in the Australian dairy herd was undertaken by the InCalf team on behalf of Dairy Australia. The study identified trends in dairy herd reproductive performance between 2000 and 2009 and identified the factors that influence fertility. Better herd fertility was strongly associated with the use of ABVs for daughter fertility, among other traits. Figure 10 clearly shows that daughters of bulls with higher Australian Breeding Values (ABVs) for daughter fertility achieve 13% higher 6-week in calf rates compared to their lower ranked counterparts.

Complementing the InCalf research is the 'Feeding the Genes' research undertaken on behalf of ADHIS in 2013. The Feeding the Genes study investigated the relationship between dairy genetics and feeding systems for milk production and cow longevity by analysing data from 505 herds spanning all five feeding systems as defined by Dairy Australia. In all feeding systems, Holstein cows with higher ABVs for milk, fat and protein produced more than their low genetic merit counterparts. Cows sired by high genetic merit sires where also more likely to re-calve by 20 months in most feeding systems and last at least as long in the herd. More information on the Feeding the Genes study can be found at www.adhis.com.au.

Farmers continue to make effective choices in improving their herds' genetic merit for production as demonstrated in Figures 11-13. Each graph illustrates the genetic improvement for Australian Profit Ranking (APR – profit from production and non-production traits) and Australian Selection Index (ASI – profit from production only) for a breed.

Bull selection is the primary source of genetic gain within dairy herds. Following the genetic trend graphs in this section of the report is a list of the 2014 leading proven Australian bulls and the brightest young genomically selected sires.

Finally, Australia's top herds ranked by Australian Profit Ranking complete this year's report. Many years of careful breeding are required to feature in this list. Congratulations to the farmers who have bred this year's top herds.





2014 Australian Breeding Values – Genetic Trends



Figure 12: Jersey Cows average APR & ASI by year of birth.



Holsteins are achieving \$8.40 profit/cow/year in genetic gain.





Jerseys are achieving \$11.00 profit/cow/year in genetic gain.



Figure 13: Red Breed Cows average APR & ASI by year of birth.



Red Breeds are achieving \$9.04 profit/cow/year in genetic gain.

2014 Australian Breeding Values – Good Bulls Guide



| ŀ | Holstein Pr | rofit - Proven Austra | alia | | | PRC | FIT | | PRODI | JCTION | | LONG | EVITY | | TYPE | | FERT | ILITY | |
|-------------|-------------|-----------------------------|---------------|-------------------|---------------------------------------|-----|-------------|-----|-------------|-------------------------|------------------|----------|-------------|--------------|----------------|-------------|-----------------------|-------------|--------|
| PROFIT RANK | ai Ting | BULL NAME | GENETIC CODES | GENOMICS INCLUDED | AUSTRALIAN PROVEN OR INTERNATIONAL | APR | RELIABILITY | ASI | RELIABILITY | AUSTRALIAN DAUGHTERS | AUSTRALIAN HERDS | SURVIVAL | RELIABILITY | OVERALL TYPE | MAMMARY SYSTEM | RELIABILITY | DAUGHTER FERTILITY | RELIABILITY | SOURCE |
| 1 | CANBEE | COUNTRY ROAD ROUMARE CANBEE | | g | Α | 370 | 79 | 332 | 86 | 91 | 36 | 106 | 64 | 108 | 104 | 76 | 94 | 64 | ALT |
| 2 | SOLACE | ECLIPSE ROUMARE SOLACE | CVF | g | A | 309 | 72 | 227 | 78 | 39 | 19 | 106 | 58 | 102 | 95 | 64 | 103 | 66 | GAC |
| 3 | 29H012772 | BALLYCAIRN OMAN PELLO | | g | A | 308 | 82 | 160 | 87 | 59 | 25 | 106 | 71 | 96 | 94 | 81 | 112 | 72 | ABS |
| 4 | GOLDCREST | TOPSPEED GOLDYN-ET | A12,CVF | g | Α | 296 | 75 | 220 | 81 | 55 | 28 | 104 | 62 | 101 | 103 | 71 | 101 | 64 | GAC |
| 5 | SHOLTZ | ST. CLAIR SHOLTZ-TWIN | | | A | 290 | 74 | 200 | 82 | 49 | 27 | 105 | 59 | 104 | 103 | 72 | 102 | 62 | ABS |
| 6 | 29H012470 | INDIJKS BABYLON | A22 | g | Α | 286 | 88 | 196 | 94 | 219 | 70 | 103 | 75 | 103 | 100 | 83 | 105 | 75 | ABS |
| 7 | ROUFECTOR | BUNDALONG ROUFECTOR | | g | A | 281 | 81 | 229 | 87 | 87 | 36 | 107 | 67 | 110 | 108 | 77 | 98 | 69 | ALT |
| 8 | REALM | ECLIPSE ROUMARE REALM | A22,BLF^ | g | A | 272 | 77 | 260 | 84 | 67 | 34 | 105 | 63 | 96 | 100 | 72 | 96 | 67 | GAC |
| 9 | WESTGATE | GALLRAE JOCKO 3438 | A22,BLF^ | g | A | 269 | 84 | 175 | 89 | 94 | 47 | 109 | 70 | 110 | 107 | 78 | 99 | 75 | GAC |
| 10 | USEAGE | KAARMONA CALEB | A12,BLF^ | g | Α | 263 | 86 | 186 | 92 | 120 | 50 | 107 | 73 | 101 | 109 | 78 | 101 | 79 | GAC |
| 11 | CHRISTMAS | EMU BANKS CHRISTMAS-ET | A22,CVF | g | A | 256 | 80 | 220 | 86 | 97 | 32 | 104 | 67 | 108 | 101 | 80 | 100 | 67 | GAC |
| 12 | DELSANTO | MANNA FARM DEL SANTO | A22,BLF^ | g | Α | 255 | 88 | 233 | 95 | 324 | 95 | 100 | 73 | 105 | 105 | 75 | 102 | 76 | GAC |
| 13 | JIFFEY | RENGAW SHOTTLE JIFFEY | | g | A | 255 | 79 | 93 | 85 | 68 | 26 | 109 | 64 | 100 | 102 | 72 | 105 | 71 | AGR |
| 14 | BUDDHA | BUSHLEA PERFECTOR BOLD-ET | A12,BLF^ | g | A | 252 | 84 | 175 | 90 | 103 | 49 | 105 | 71 | 107 | 104 | 79 | 101 | 71 | GAC |
| 15 | DEANCOX | MANNA FARM DEANCOX | A22,BLF^ | g | A | 250 | 83 | 205 | 88 | 87 | 43 | 105 | 69 | 107 | 103 | 77 | 97 | 72 | GAC |
| 16 | 7H8081 | ENSENADA TABOO PLANET ET | A22,RDF^ | g | A | 250 | 96 | 132 | 98 | 520 | 111 | 110 | 89 | 105 | 111 | 96 | 102 | 91 | GAC |
| 17 | DOLBY | GUM RIDGES ROUMARE DOLBY | A22 | g | A | 247 | 75 | 146 | 81 | 54 | 28 | 107 | 60 | 103 | 106 | 68 | 105 | 65 | GAC |
| 18 | LAIDLEY | GLOMAR LAIDLEY | BLF,CVF | g | Α | 246 | 73 | 180 | 80 | 46 | 21 | 106 | 58 | 100 | 96 | 67 | 103 | 60 | GAC |
| 19 | MOTOWN | ECLIPSE ROUMARE MOTOWN | CVF | | A | 235 | 76 | 177 | 81 | 68 | 34 | 103 | 67 | 101 | 100 | 74 | | | GAC |
| 20 | LAZZARO | GLOMAR LAZZARO | A22 | g | A | 228 | 76 | 151 | 84 | 82 | 25 | 106 | 58 | 107 | 106 | 66 | 105 | 63 | ABS |
| 21 | CURIO | COUNTRY ROAD ROUMARE CURIO | A12,BLF^ | g | A | 225 | 77 | 176 | 83 | 55 | 30 | 105 | 63 | 104 | 102 | 70 | 99 | 68 | GAC |
| 22 | CARMARE | KAARMONA CARMARE | A22,BLF^ | g | Α | 221 | 78 | 140 | 84 | 60 | 31 | 106 | 64 | 106 | 103 | 74 | 106 | 68 | GAC |
| 23 | SHOTTLE | PICSTON SHOTTLE | | g | А | 217 | 98 | 66 | 99 | 2812 | 456 | 110 | 97 | 108 | 106 | 99 | 106 | 98 | ABS |
| 24 | DELJARDIN | BUNKERS HILL DELJARDIN | A22 | g | A | 216 | 74 | 141 | 80 | 53 | 23 | 103 | 60 | 99 | 104 | 69 | 104 | 64 | GAC |
| 25 | СНІСО | CARENDA CHICO | A22 | g | Α | 213 | 80 | 128 | 86 | 83 | 37 | 108 | 65 | 106 | 104 | 76 | 99 | 68 | GAC |

| H | lolstein Pro | ofit - Genomic ABV(g)s | | | | PRO | FIT | PF | RODU | CTIO | N | LONG | VITY | | TYPE | | FERT | ILITY | |
|-------------|--------------|-----------------------------------|---------------|-------------------|---------------------------------------|-----|-------------|-----|-------------|----------------------|------------------|----------|-------------|--------------|----------------|-------------|--------------------|-------------|--------|
| PROFIT RANK | BULL ID | BULL NAME | GENETIC CODES | GENOMICS INCLUDED | AUSTRALIAN PROVEN OR INTERNATIONAL | APR | RELIABILITY | ASI | RELIABILITY | AUSTRALIAN DAUGHTERS | AUSTRALIAN HERDS | SURVIVAL | RELIABILITY | OVERALL TYPE | MAMMARY SYSTEM | RELIABILITY | DAUGHTER FERTILITY | RELIABILITY | SOURCE |
| 1 | JUMPON | RENGAW KMA JUMPON | A22 | g | A | 307 | 58 | 253 | 67 | 0 | 0 | 105 | 42 | 105 | 104 | 44 | 99 | 42 | GAC |
| 2 | JUSTLE | RENGAW MOM JUSTLE | | g | A | 305 | 56 | 169 | 65 | 0 | 0 | 108 | 39 | 101 | 102 | 42 | 108 | 38 | AGR |
| 3 | JANEK | RENGAW JARDIN JANEK | A22 | g | A | 304 | 67 | 255 | 76 | 18 | 9 | 103 | 49 | 101 | 105 | 50 | 99 | 48 | ABS |
| 4 | ROYALMAN | HINDLEE GOLDWYN OMANROYAL 121003 | A12 | g | A | 300 | 63 | 160 | 71 | 0 | 0 | 108 | 49 | 104 | 105 | 52 | 110 | 49 | GAC |
| 5 | CRVBOUWROCKY | BOUW ROCKY | | g | A | 299 | 51 | 158 | 62 | 0 | 0 | 109 | 34 | 105 | 104 | 36 | 111 | 34 | CRV |
| 6 | DIMAGGIO | BUNDALONG JETSTAR CANBEE DIMAGGIO | A22 | g | A | 294 | 60 | 226 | 69 | 0 | 0 | 106 | 44 | 104 | 102 | 47 | 99 | 44 | GAC |
| 7 | GEEMCEE | RENGAW MANOMAN HUMMER-ET | | g | A | 292 | 60 | 220 | 69 | 0 | 0 | 104 | 42 | 102 | 102 | 45 | 103 | 42 | GAC |
| 8 | PICOLA | ADLEJAMA DELSANTO PICOLA | A22 | g | A | 292 | 60 | 195 | 68 | 0 | 0 | 104 | 43 | 103 | 105 | 45 | 106 | 44 | GAC |
| 9 | WRANGLER | RENGAW MANOMAN WRANGLER-ET | | g | Α | 291 | 60 | 188 | 69 | 0 | 0 | 105 | 43 | 100 | 102 | 45 | 108 | 42 | GAC |
| 10 | CRVTOTILLAS | BARNKAMPER TOTILLAS | | g | A | 287 | 50 | 158 | 58 | | | 108 | 34 | 104 | 107 | 36 | 107 | 34 | CRV |
| 11 | JENGOLD | EMU BANKS JENGOLD | A22 | g | Α | 285 | 56 | 178 | 65 | 0 | 0 | 104 | 38 | 99 | 99 | 41 | 110 | 40 | GAC |
| 12 | JUDGEMENT | RENGAW ESQUIRE JUDGEMENT | | g | Α | 285 | 58 | 157 | 67 | 0 | 0 | 105 | 40 | 99 | 98 | 40 | 113 | 40 | GAC |
| 13 | STARSHIRAZ | JET STAR DELSANTO SHIRAZ | A22 | g | Α | 279 | 66 | 230 | 75 | 0 | 0 | 103 | 50 | 104 | 107 | 53 | 104 | 50 | GAC |
| 14 | OTTMAR | DILEE BUDDHA OLLIE 751 | A12 | g | Α | 278 | 57 | 171 | 66 | 0 | 0 | 106 | 41 | 102 | 103 | 43 | 103 | 41 | GAC |
| 15 | DAMANI | MANNA FARM KMA 2341 | | g | A | 276 | 57 | 229 | 66 | 0 | 0 | 104 | 41 | 102 | 102 | 42 | 100 | 41 | GAC |
| 16 | SASSOCAR | KAARMONA SASSOCAR | A22 | g | A | 276 | 58 | 189 | 67 | 0 | 0 | 106 | 40 | 102 | 103 | 42 | 105 | 40 | GAC |
| 17 | CRVGLAMORGAN | GLAMORGAN FREDDIE TIFFANY | A22 | g | A | 274 | 56 | 185 | 65 | 0 | 0 | 104 | 40 | 100 | 102 | 41 | 107 | 40 | CRV |
| 18 | NARDOO | HILL VALLEY SS NARDOO | A22 | g | Α | 274 | 50 | 162 | 60 | 0 | 0 | 108 | 33 | 103 | 104 | 35 | 105 | 33 | GAC |
| 19 | CRVTITANIUM | DELTA TITANIUM | | g | A | 273 | 58 | 120 | 66 | 0 | 0 | 108 | 43 | 100 | 99 | 44 | 112 | 44 | CRV |
| 20 | ARMAND | HILL VALLEY O ARMAND | A22 | g | Α | 270 | 61 | 172 | 69 | 0 | 0 | 106 | 45 | 100 | 98 | 48 | 105 | 45 | GAC |

The bull must meet minimum requirements for reliability, is active and more than 1 standard deviation above average for Profit \$. For the full list go to **www.adhis.com.au**

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| - | Jersey Prof | it - Proven Australia | | 1 | | PRO | OFIT | | PROD | DUCTION | 1 | LONG | EVITY | | TYPE | | FERTI | LITY | |
|-------------|--------------|--------------------------------|---------------|-------------------|---------------------------------------|-----|-------------|-----|-------------|-------------------------|------------------|----------|-------------|--------------|----------------|-------------|-----------------------|-------------|--------|
| PROFIT RANK | BULL ID | BULL NAME | GENETIC CODES | GENOMICS INCLUDED | AUSTRALIAN PROVEN OR INTERNATIONAL | APR | RELIABILITY | ASI | RELIABILITY | AUSTRALIAN DAUGHTERS | AUSTRALIAN HERDS | SURVIVAL | RELIABILITY | OVERALL TYPE | MAMMARY SYSTEM | RELIABILITY | DAUGHTER FERTILITY | RELIABILITY | SOURCE |
| 1 | NAVARIAN | COLNARCO NAVARIAN | A12 | g | A | 330 | 74 | 268 | 82 | 60 | 32 | 104 | 56 | 107 | 109 | 63 | 101 | 60 | GAC |
| 2 | TBONE | RICHIES JACE TBONE A364 | A22 | g | Α | 271 | 90 | 194 | 95 | 229 | 59 | 108 | 80 | 115 | 112 | 90 | 100 | 83 | AGR |
| 3 | ELTON | CAIRNBRAE JACES ELTON | | g | Α | 267 | 97 | 216 | 99 | 2431 | 327 | 105 | 89 | 113 | 107 | 95 | 99 | 95 | ABS |
| 4 | CSCAMBITION | RIVERSIDE AMBITION | | g | Α | 262 | 73 | 213 | 79 | 47 | 22 | 103 | 59 | 105 | 110 | 69 | 104 | 59 | ABS |
| 5 | SANDBLAST | NOWELL SANDBLAST | A22 | g | A | 261 | 88 | 209 | 94 | 268 | 74 | 98 | 73 | 101 | 108 | 83 | 106 | 74 | AGR |
| 6 | RACEWAY | ABERDEEN VALERIAN SANDOWN-ET | A22 | g | Α | 249 | 81 | 207 | 86 | 93 | 37 | 106 | 67 | 110 | 113 | 81 | 99 | 66 | GAC |
| 7 | TENGEN | MOROKA TENGEN | A22 | g | Α | 234 | 75 | 195 | 83 | 63 | 26 | 103 | 57 | 100 | 103 | 65 | 103 | 58 | GAC |
| 8 | MAXAPPEAL | RIVERSIDE MAXIMUM APPEAL | A12 | g | Α | 232 | 71 | 173 | 78 | 37 | 21 | 106 | 53 | 105 | 101 | 61 | 100 | 60 | ABS |
| 9 | LOCKSMITH | WHITE STAR LOCKSMITH | A22 | g | Α | 223 | 74 | 167 | 81 | 57 | 28 | 103 | 60 | 101 | 94 | 71 | | | GAC |
| 10 | VANAHLEM | PANNOO ABE VANAHLEM | | g | Α | 214 | 88 | 152 | 94 | 324 | 95 | 107 | 73 | 116 | 110 | 87 | 95 | 69 | ALT |
| 11 | ROUNDHILL | ABERDEEN VALERIAN ROUNDHILL-ET | A22 | g | Α | 213 | 73 | 150 | 80 | 58 | 29 | 105 | 56 | 108 | 106 | 65 | 103 | 61 | GAC |
| 12 | BOSMURMUR | OKURA LIKA MURMUR S3J | A22 | | Α | 210 | 89 | 164 | 95 | 270 | 46 | 102 | 73 | 96 | 95 | 87 | 101 | 69 | CRV |
| 13 | BROADSIDE | BROADLIN 2420 SPIRITUAL | A22 | g | Α | 206 | 75 | 165 | 81 | 56 | 35 | 104 | 61 | 105 | 105 | 73 | 98 | 58 | GAC |
| 14 | LARFALOT | LIGHTWOOD LUCRATIVE | A22 | g | Α | 202 | 97 | 171 | 99 | 1781 | 280 | 105 | 90 | 110 | 104 | 95 | 97 | 94 | GAC |
| 15 | VASILIS | KAARMONA VASILIS | | g | Α | 196 | 73 | 180 | 81 | 57 | 21 | 105 | 55 | 104 | 100 | 60 | 97 | 62 | AGR |
| 16 | VAVOOM | ROCKLEIGH PARK VALERIAN VAVOOM | A22 | g | Α | 191 | 77 | 170 | 84 | 70 | 27 | 104 | 58 | 99 | 97 | 65 | 100 | 63 | ABS |
| 17 | ARIES | NOWELL ZODIAC | | g | А | 189 | 74 | 146 | 80 | 52 | 18 | 102 | 59 | 96 | 98 | 69 | 102 | 64 | CRV |
| 18 | SOVANN | KAARMONA SOVANN-ET | A22 | g | Α | 188 | 82 | 145 | 88 | 120 | 52 | 104 | 68 | 104 | 98 | 81 | 102 | 64 | GAC |
| 19 | TAILBOARD | NOWELL TARSAN | A12 | g | А | 186 | 97 | 152 | 99 | 1397 | 253 | 102 | 93 | 105 | 103 | 90 | 98 | 96 | GAC |
| 20 | GAINFUL | KAARMONA GALEAO | A12 | g | Α | 182 | 83 | 146 | 89 | 89 | 48 | 104 | 69 | 112 | 112 | 72 | 95 | 75 | GAC |
| 21 | AMBMANHATTEN | OKURA MANHATTEN-ET SJ3 | | g | Α | 175 | 98 | 196 | 99 | 1827 | 261 | 100 | 96 | 97 | 93 | 95 | 97 | 97 | CRV |
| 22 | VALERAGAY | BROADLIN 2429 VALERIAN | A12 | g | Α | 154 | 77 | 116 | 84 | 68 | 30 | 104 | 59 | 101 | 97 | 66 | 99 | 64 | GAC |
| 23 | DELIAN | LOXLEIGH DELIAN | A22 | g | Α | 149 | 78 | 136 | 85 | 78 | 44 | 105 | 60 | 113 | 107 | 66 | 99 | 65 | GAC |
| 24 | SARATOGA | BERCAR SARATOGA | A22 | g | Α | 134 | 95 | 64 | 98 | 477 | 153 | 106 | 88 | 102 | 101 | 85 | 103 | 92 | GAC |
| 25 | BETAHEAD | KINGS VILLE OUTDO | A12 | g | A | 132 | 85 | 108 | 90 | 117 | 46 | 102 | 71 | 106 | 98 | 73 | 97 | 77 | GAC |

| J | lersey Prof | it - Genomic ABV(g) | S | 1 | | PRC | OFIT | | PROE | DUCTION | 1 | LONG | EVITY | | TYPE | | FERT | LITY | |
|-------------|-------------|--------------------------|---------------|-------------------|---------------------------------------|-----|-------------|-----|-------------|-------------------------|------------------|----------|-------------|--------------|----------------|-------------|-----------------------|-------------|--------|
| PROFIT RANK | BULL ID | BULL NAME | GENETIC CODES | GENOMICS INCLUDED | AUSTRALIAN PROVEN OR INTERNATIONAL | APR | RELIABILITY | ASI | RELIABILITY | AUSTRALIAN DAUGHTERS | AUSTRALIAN HERDS | SURVIVAL | RELIABILITY | OVERALL TYPE | MAMMARY SYSTEM | RELIABILITY | DAUGHTER FERTILITY | RELIABILITY | SOURCE |
| 1 | DOUBLEUP | BROADLIN DOUBLEUP | A22 | g | Α | 332 | 44 | 307 | 54 | 0 | 0 | 104 | 26 | 101 | 101 | 29 | 100 | 24 | GAC |
| 2 | CAIRNBONE | CAIRNBRAE TBONE ENSIGN | | g | A | 292 | 66 | 223 | 74 | 16 | 6 | 106 | 49 | 108 | 113 | 56 | 101 | 43 | ALT |
| 3 | CSCEDISON | CAIRNBRAE TBONE EDISON | | g | A | 289 | 59 | 256 | 68 | 12 | 7 | 102 | 41 | 101 | 103 | 46 | 99 | 39 | ABS |
| 4 | LEVIGENES | BROADLIN LEVI | A12 | g | Α | 280 | 52 | 235 | 60 | 0 | 0 | 106 | 35 | 109 | 104 | 39 | 97 | 34 | GAC |
| 5 | SANDSTORM | KADDY ELTON SANDSTORM | A22 | g | A | 272 | 60 | 243 | 67 | 0 | 0 | 102 | 46 | 101 | 100 | 49 | 96 | 45 | |
| 6 | CRVBRAX | PANNOO BRAX | A22 | g | A | 266 | 49 | 196 | 59 | 0 | 0 | 109 | 32 | 120 | 112 | 36 | 97 | 31 | CRV |
| 7 | BORAT | BROOKBORA TBONE BORAT | A22 | g | Α | 265 | 52 | 202 | 61 | 0 | 0 | 106 | 36 | 106 | 104 | 40 | 98 | 35 | GAC |
| 8 | STACKER | BROADLIN STACKER | A12 | g | Α | 253 | 47 | 219 | 56 | 0 | 0 | 103 | 31 | 107 | 105 | 34 | 101 | 30 | GAC |
| 9 | CRVVOYANT | MERSEYBANK CLAIRVOYANT | | g | A | 252 | 47 | 190 | 58 | 0 | 0 | 105 | 29 | 106 | 105 | 31 | 102 | 29 | CRV |
| 10 | KEVIN | WHITE STAR KEVIN | A22 | g | Α | 249 | 54 | 194 | 62 | 0 | 0 | 106 | 39 | 102 | 100 | 43 | 100 | 37 | GAC |
| 11 | CRVSANDRIFT | KADDY ELTON SANDRIFT | | g | A | 243 | 59 | 202 | 67 | 0 | 0 | 105 | 45 | 106 | 103 | 48 | 96 | 44 | CRV |
| 12 | SHAQ | NOWELL SHAQ | | g | A | 243 | 57 | 181 | 64 | 0 | 0 | 105 | 42 | 107 | 105 | 46 | 102 | 41 | |
| 13 | CONNIE | BROADLIN CONNIE | A22 | g | A | 242 | 53 | 187 | 62 | 0 | 0 | 104 | 36 | 110 | 109 | 41 | 99 | 35 | GAC |
| 14 | VALAIS | WHITE STAR VALAIS | A22 | g | A | 239 | 69 | 230 | 79 | 49 | 19 | 102 | 44 | 98 | 100 | 44 | 99 | 56 | GAC |
| 15 | JULSTAR | WHITE STAR 5281 JULIAN | A22 | g | A | 238 | 51 | 181 | 59 | 0 | 0 | 102 | 36 | 109 | 109 | 38 | 105 | 35 | GAC |
| 16 | VISTAWALL | WALLACEDALE MELS VISTA | A22 | g | Α | 238 | 57 | 166 | 66 | 0 | 0 | 106 | 42 | 104 | 102 | 44 | 101 | 41 | GAC |
| 17 | ZORKO | BEULAH GALV 4090 | A22 | g | A | 236 | 48 | 211 | 57 | 0 | 0 | 103 | 32 | 104 | 104 | 35 | 99 | 31 | GAC |
| 18 | CSCTRESBON | GELBEADO PARK TRESBON | | g | Α | 236 | 52 | 187 | 61 | 0 | 0 | 103 | 37 | 107 | 103 | 40 | 98 | 36 | ABS |
| 19 | FREEVODKA | MELDAN SB FREDO | A22 | g | Α | 235 | 54 | 179 | 62 | 0 | 0 | 101 | 39 | 105 | 106 | 42 | 105 | 38 | GAC |
| 20 | 011JE01134 | BROOKBORA TBONE BARCARDI | | g | A | 234 | 55 | 165 | 64 | 0 | 0 | 107 | 39 | 107 | 106 | 44 | 99 | 37 | ALT |

The bull must meet minimum requirements for reliability, is active and more than 1 standard deviation above average for Profit . For the full list go to **www.adhis.com.au**

August 2014

2014 Australian Breeding Values – Good Bulls Guide



| 1 | | | | | | | | | | | | | | ~ | | | | | |
|-------------|--------------|-------------------------|-------|---------------|---------------------------------------|-----|-------------|-----|-------------|-------------------------|------------------|----------|-------------|--------------|----------------|-------------|-----------------------|-------------|--------|
| h | ea Breeas F | rofit - Proven Au | Istra | la | | PR | OFIT | | PROD | UCTION | 1 | LONG | EVITY | | TYPE | | FERT | ILITY | |
| PROFIT RANK | BULL ID | BULL NAME | BREED | GENETIC CODES | AUSTRALIAN PROVEN OR INTERNATIONAL | APR | RELIABILITY | ASI | Reliability | AUSTRALIAN DAUGHTERS | AUSTRALIAN HERDS | SURVIVAL | RELIABILITY | OVERALL TYPE | MAMMARY SYSTEM | RELIABILITY | DAUGHTER FERTILITY | RELIABILITY | SOURCE |
| 1 | ATOSIKKO | ASMO TOSIKKO | U | A22 | A | 262 | 83 | 174 | 90 | 102 | 15 | 106 | 64 | 108 | 106 | 84 | 100 | 78 | VIK |
| 2 | FASTRUP | R FASTRUP | U | | A | 202 | 82 | 113 | 88 | 79 | 13 | | | | | | | | VIK |
| 3 | VRSOLER02851 | VR SOLERO | U | | A | 200 | 72 | 168 | 83 | 34 | 10 | 99 | 41 | | | | | | VIK |
| 4 | ARBBONJOVI | BOSGOWAN BON JOVI | U | A22 | A | 194 | 90 | 146 | 96 | 447 | 125 | 103 | 73 | 102 | 102 | 79 | 106 | 79 | GAC |
| 5 | ARBPOTSIE | GRAZIN POTSIE | U | A12 | A | 189 | 84 | 133 | 91 | 122 | 52 | 104 | 66 | 94 | 92 | 65 | 106 | 74 | GAC |
| 6 | ARBLEVER | LOUVIC LEVER | U | A12 | Α | 166 | 74 | 120 | 84 | 74 | 33 | 103 | 51 | 106 | 106 | 56 | 101 | 56 | GAC |
| 7 | ARBHILLY | BEAULANDS HILLY | U | A12 | A | 165 | 53 | 114 | 60 | 21 | 9 | 104 | 37 | 108 | 107 | 40 | | | GAC |
| 8 | RANDERSDAVID | R DAVID | U | | A | 155 | 86 | 58 | 91 | 104 | 22 | 111 | 74 | 104 | 103 | 78 | 103 | 83 | VIK |
| 9 | ARBBOBDOWN | LODEN BOB | U | A12 | A | 146 | 95 | 163 | 99 | 1647 | 238 | 104 | 85 | 104 | 100 | 86 | 96 | 93 | GAC |
| 10 | ARBLIPPMAN | BOSGOWAN LIPPMAN | U | A11 | A | 146 | 82 | 116 | 91 | 123 | 40 | 103 | 60 | 106 | 107 | 51 | 98 | 71 | GAC |
| 11 | ARBLONGBOW | LOUVIC LIBBA | U | A12 | A | 146 | 78 | 89 | 88 | 96 | 38 | 104 | 54 | 103 | 101 | 54 | 101 | 64 | GAC |
| 12 | ARBBALTIC | CALISTER BONO | U | A22 | A | 144 | 77 | 85 | 88 | 109 | 48 | 102 | 51 | 98 | 98 | 54 | 101 | 54 | GAC |
| 13 | RBANGKOK | R BANGKOK | U | | A | 144 | 88 | 19 | 94 | 195 | 16 | 109 | 70 | | | | 102 | 84 | VIK |
| 14 | ARBFROSTY | MERIBEN PARK JACK FROST | U | A22 | A | 141 | 79 | 85 | 88 | 92 | 38 | 103 | 57 | 102 | 104 | 62 | 102 | 63 | GAC |
| 15 | ARBLAWRENCE | BOSGOWAN LAWRENCE | U | A12 | A | 138 | 97 | 33 | 99 | 1632 | 292 | 107 | 94 | 105 | 100 | 88 | 108 | 97 | GAC |

| Gı | lernsey l | Profit | | | | | | | | | | | | | | | | |
|------|------------|-------------------------|---------------------------------------|-----------|-------------|------------|-------------|-------------------------|------------------|----------------------------|----------|-------------|--------------|----------------|-------------|-----------|-------------|--------|
| | | | | PRO | FIT | | PRO | DUCTIO | N | | LONG | EVITY | | TYPE | Ì | FERT | ILITY | |
| RANK | BULL ID | BULL NAME | AUSTRALIAN PROVEN Or international | PROFIT \$ | RELIABILITY | PRODUCTION | RELIABILITY | AUSTRALIAN DAUGHTERS | AUSTRALIAN HERDS | Foreign daughters First | SURVIVAL | RELIABILITY | OVERALL TYPE | MAMMARY SYSTEM | RELIABILITY | FERTILITY | RELIABILITY | SOURCE |
| 1 | ICYICEBERG | SPRING WALK ICY ICEBERG | I | 146 | 57 | 148 | 69 | | | 82 | 100 | 45 | 103 | 100 | 58 | 102 | 58 | AGR |
| 2 | BOSGEO | GOLDEN J LES GEORGE | I | 117 | 52 | 107 | 60 | | | 123 | 103 | 36 | 108 | 105 | 50 | 98 | 49 | AGR |
| 3 | AUSFAYSB00 | KOOKABURRA FAYS BOO | Α | 113 | 75 | 45 | 88 | 94 | 30 | | 108 | 56 | | | | 100 | 67 | |
| 4 | 7G405 | GOLDEN J RONALD GRUMPY | I | 107 | 52 | 67 | 63 | | | 221 | 103 | 38 | 104 | 106 | 53 | 100 | 60 | GAC |
| 5 | 7G398 | SNIDERS RONALDS ALSTAR | I | 99 | 56 | 48 | 68 | | | 204 | 102 | 42 | 104 | 101 | 57 | 97 | 61 | GAC |

| Br pr | own Swis oven Aust | s Profit tralia | | PRO | DFIT | | PRODL | ICTION | | LONGE | VITY | FERT | ILITY | |
|----------|-------------------------------|--------------------------|---------------------------------------|-----------|-------------|---------------|-------------|-------------------------|------------------|----------|-------------|--------------------|-------------|--------|
| RANK | GI AWEN TING GGEVENT EVENT | | AUSTRALIAN PROVEN or international | PROFIT \$ | RELIABILITY | PRODUCTION \$ | RELIABILITY | AUSTRALIAN DAUGHTERS | AUSTRALIAN HERDS | SURVIVAL | RELIABILITY | DAUGHTER FERTILITY | RELIABILITY | SOURCE |
| 1 | GGEVENT | EVENT | А | 155 | 76 | 77 | 89 | 103 | 32 | 107 | 57 | 101 | 66 | ABS |
| 2 | GGHURAY | HURAY | Α | 108 | 60 | 76 | 78 | 52 | 12 | | | 104 | 34 | ABS |
| 3 | SWISSEDGE | ELM PARK JUPITERS EDGE | Α | 104 | 86 | 38 | 96 | 318 | 84 | 102 | 76 | 105 | 84 | GAC |
| 4 | BOSPIUS | SUPERBROWN PIUS | Α | 94 | 41 | 78 | 56 | 19 | 10 | | | | | CRV |
| 5 | 76B0900 | VICTORY ACRES SIMON EVEN | Α | 88 | 75 | 31 | 87 | 79 | 37 | 103 | 57 | 98 | 66 | |

The bull must meet minimum requirements for reliability, is active and more than 1 standard deviation above average for Profit \$. For the full list go to **www.adhis.com.au**

2014 Australian Breeding Values – Top Herd Summary

| APR Owner name Address Post National Convert Source Non APR APR Post |
|--|
| rankrankrankrankrankoffierankoffierank <thr>rankrankrankrank</thr> |
| Image: Constraint of the state of |
| 1 Wagner G Winnalesh 7265 Ted SWAA 3.209 155 56 130 130 16 0.04 59 22 0.01 2 Kitchen Farms Boyanup 6237 W00248F 1,949 386 84 121 92 14 0.00 420 50 3.24 121 92 14 0.00 42 5 0.04 4 Horgy A&J Biggara 3707 C00155U 861 169 90 120 108 172 10.06 432 13 0.00 5 Dickson B&J.L Terang 365 C01125 481 126 186 140 0.01 437 13 0.00 7 Sprunt RG Karimba 3635 C01257 1.28 126 107 104 88 14 0.01 436 14 0.02 9 Johnston R&L Bundaguah 351 540624E 715 289 13 |
| 2 Kitchen Farms Boyanup 6237 W00248F 1,949 386 84 121 92 14 0.07 380 18 0.02 2 Henry TW & TC Tinamba 3859 240101 2,449 503 324 121 91 15 0.06 422 15 0.04 4 Hogg As Biggara 3707 C0015SU 861 169 90 12 0.05 432 13 0.06 5 Dickson B & JL Terang 3264 850441U 2,922 248 108 168 17 12 0.06 432 13 0.09 7 Sprunt RG Kaarimba 3635 C0112SS 487 185 66 105 69 12 0.00 457 14 0.02 9 Johnston R& BL Kongwak 3951 540597R 1.28 266 10 17 9 0.0 178 14 0.02 |
| 2 Henry TW &TC Tinamba 3859 240108T 2,449 503 324 121 91 15 0.06 422 15 -0.04 4 Hogg A & J Biggara 3707 C00155U 861 169 90 120 103 15 0.06 432 13 0.00 5 Dickson B & JL Barengary 2577 N00544Q 1,262 176 39 108 97 12 0.00 437 13 0.00 6 Parish TJ & LR Barengary 2577 N00544Q 1,262 166 107 104 88 14 0.07 374 14 0.02 9 Johnston R & L Bundalaguah 3851 240024G 2.082 605 10 102 79 14 0.01 490 18 14 0.09 18 14 0.01 13 Uderstands 305 84049W 867 157 0.0 10 10.0 <t< td=""></t<> |
| 4 Hogg A & J Biggara 3707 C00155U 861 169 90 120 103 15 0.2 321 17 0.04 5 Dickson B & JL Terang 3264 8041U 2,32 849 268 109 89 15 0.06 432 13 0.08 6 Parrish TJ & LR Barrengary 2577 N00544Q 1,28 168 80 105 69 12 0.00 457 13 0.09 7 Sprun RG Karimba 3635 C01255 487 1.28 100 104 88 14 0.07 43 14 0.09 9 Johnston R&L Bundalguah 3851 240024G 2.082 605 100 102 79 14 0.01 496 16 0.03 658 13 0.02 10 Walder R&AA Heathmere 305 84004W 867 157 0.0 10 0.5 |
| 5 Dickson B & JL Terang 3264 8504410 2,922 849 268 109 89 15 0.6 432 13 0.08 6 Parrish T J & LR Barrengary 2577 N00544Q 1,262 176 39 108 77 12 0.06 432 13 0.02 7 Sprunt RG Kaarimba 363 C011255 447 188 86 105 69 1.2 0.0 47 1.4 0.01 9 Johnston R&L Bundaguah 3851 540024G 2.028 105 100 80 14 0.01 47 1.4 0.02 10 Vertert R&HE Kongwak 3951 540624E 715 2.09 100 82 14 0.05 401 14 0.05 12 Cook R & JP Edi Uper 363 840391 2.99 611 0.0 423 12 0.01 141 0.02 432 < |
| 6 Parrish TJ & LR Barrengarry 2577 N0054QQ 1,262 176 39 108 77 12 0.06 310 135 0.02 7 Sprunt RG Kaarimba 3635 C011255 487 185 86 105 69 12 0.00 457 13 0.00 8 Anderson W& & Bundalguab 351 240024G 2.082 606 10 102 79 14 0.01 406 16 0.00 10 Parrett RJ & HE Kongwak 3951 540624E 715 289 1.3 100 80 16 0.03 81 14 0.01 10 Walder RG & CA Heathmere 3305 840304W 867 1.5 1.0 10 10 10 14 0.05 14 100 14 0.05 14 100 14 0.05 14 100 14 0.05 14 100 14 10.5 14 10.5 14 10.5 14 10.5 14 10.5 14 10.5 </td |
| 7 Sprunt RG Kaarimba 3635 C011255 487 185 666 105 69 12 0.00 457 1.3 -0.09 8 Anderson WR & BL Kongwak 391 540597R 1.286 268 107 104 88 1.0 0.01 400 |
| 8Anderson WR & BLKongwak3951540597R1,29826810710788140.073741440.029Johnston R & LBundalguah3851240024G2,082605010279140.01496160.0810Perrett R & HEKongwak3951540624E7152.891.310080160.036581.30.0110Walder RG & CAHeathmere305840404W8671.570.01007290.091.8140.0012Cook RJ & JPEdi Upper3678Co0276F2,042570409782140.054011.013Uebergang IS & JAGorae West330584039172.902.05829457110.02433120.0114Willcocks P & IYankalilla5203S004757.517.57.67.5120.092.48100.0115Heey DM & LKatunga360540139F1.3132.301.44897.51.20.092.48100.011.00.011.00.011.00.011.00.011.00.011.00.011.00.011.00.011.00.011.00.011.00.011.00.011.01.01.01.01.01.01.0 |
| 9Johnston R & LBundalaguh3851240024G2,082605010279140.01496160.0310Perrett R J & HEKongwak3951540624E7152891310080160.03658130.0110Walder RG & CAHeathmere3305840404W86715701007290.09178140.0512Cook R J PEdi Upper3678CO0276F2,042570409782140.054011010114Wilcocks P & IYankalilla503S00047P920205829457110.0243120.0115Hoey DM & LKatunga360440025F776488159377110.08263130.0216MacQueen AD & GLYanakie360540139F1,3132201248950110.06276120.0116McRae SA & MMNambrok3872K0054J591333848969110.06276120.0118Lia TO & PM Pty LtdNilma North382540184S69919708763140.0147180.0120Coster & & MNilma North382540184S69919708563100.022310 |
| 10Perrett RJ & HEKongwak3951540624E7152891310080160.03658130.2110Walder RG & CAHeathmee3305840404W86715701007290.09178140.0912Cook RJ & JPEdi Upper3678CO02762,0425704409782140.05401140.0513Uebergang IS & JAGorae West330584039172996109579140.0540120.0114Willcocks P & IYankalilla5203S00047P920205829457110.0243120.0115Hoey DM & LKatunga3640410025F76448159377110.0823130.0216MacQueen AD & KLYankie3960540139F1,3132301248975120.0924100.0116McRae SA & NMNambrok3827ZK0054J591333848969110.06276120.0118Lia TO & PM Pty LtdNilma North3821SK018469919708764100.0723100.0020Coster & & MRipplebrock38189813062,0958552718563120.0239< |
| 10 Walder RG & CA Heathmere 3305 840404W 867 157 0 100 72 9 0.09 178 14 0.09 12 Cook RJ & JP Edi Upper 3678 CO0276F 2,042 570 400 97 82 14 0.05 401 14 0.05 13 Uebergang IS & JA Gorae West 3305 840391T 299 661 00 95 79 14 0.05 407 10 0.10 14 Willcocks P & I Yankalilla 5203 S00047P 920 205 82 94 57 11 0.02 443 12 0.101 15 Hoey DM & L Katunga 360 540139F 1,313 230 124 89 75 12 0.09 248 10 0.01 16 MacQueen AD & GL Yanakie 360 540139F 1,313 230 14 80 14 0.00 24 10 0.01 41 0.01 11 0.0 10 0.01 10< |
| 12 Cook RJ & JP Edi Upper 3678 CO0276F 2,042 570 40 97 82 14 0.05 401 14 0.05 13 Uebergang IS & JA Gorae West 3305 8403917 299 661 0 95 79 14 0.05 407 10 0.10 14 Willcocks P & I Yankalilla 5203 S00047P 920 2025 82 94 57 111 0.02 443 12 0.10 15 Hoey DM & L Katunga 3640 410025F 76 488 15 93 77 111 0.08 263 13 0.02 16 MacQueen AD & GL Yankaie 3960 540139F 1,313 230 124 89 75 11 0.08 276 12 0.09 248 10 0.01 16 MacQueen AD & Mak Nambrok 381 240054 591 393 84 89 69 11 0.06 73 10 0.04 73 10 0.04 </td |
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| 14 Willcocks P &I Yankalila 5203 S00047P 920 205 82 94 57 11 -0.02 443 12 -0.10 15 Hoey DM &L Katunga 3640 440025F 76 448 15 93 77 11 0.08 263 13 0.02 16 MacQueen AD &GL Yankie 3960 540139F 1,313 230 124 89 75 12 0.09 248 10 0.01 16 McRae SA &NM Nambrok 3847 2K0054J 591 393 84 89 69 111 0.06 276 12 0.01 18 Lia TO & PM Pty Ltd Nilma North 3821 5401845 699 197 0 87 64 10 0.01 433 10 0.01 20 Coster B &M Ripplebrook 3818 981306Q 2.095 855 2.71 85 63 12 0.02 30 84 0.12 0.03 138 0.01 0.03 2.68 1. |
| 15Hoey DM & LKatunga3640440025F7648159377110.08263130.0216MacQueen AD & GLYanakie3960540139F1,3132301248975120.09248100.0116McRae SA & NMNambrok38472K0054J591393848969110.06276120.0118Lia TO & PM Pty LtdNilma North3821540184S69919708764100.07233100.0020Coster B & MRipplebrook3818981306Q2,0958552718572110.07268120.0020Heywood GAYarragon3823240851B1,1082470856390.08173100.0422Green RJ LM & AETamworth2340N00416Q752169478263120.0239080.1223Moscript ME CJ & JMLeongatha Sth3953540300E8771950805511-0.014449-0.1524Coates JDAllestree3305840377M1,11523907861100.0329811-0.0225Fielding R & DSouth Riana7316T34GFJM1,65139007566100.05 <td< td=""></td<> |
| 16MacQueen AD & GLYanakie3960540139F1,3132301248975120.0924810-0.0116McRae SA & NMNambrok38472K0054J591393848969110.06276120.0118Lia TO & PM Pty LtdNilma North3821540184569919708764100.07233100.0020Coster B & MRipplebrook3818981306Q2,0958552718572110.07268120.0020Heywood GAYarragon3823240851B1,1082470856390.08173100.0422Green RJ LM & AETamworth2340N00416Q7521694478263120.0239088-0.1223Moscript ME CJ & JMLeongatha Sth3953540300E8771950805511-0.014449-0.1524Coates JDAllestree3305840377M1,11523907861100.0329811-0.0225Fielding R & DSouth Riana7316T34GFJM1,6513900765980.07157100.0526White KL & DM & RLLeongatha Sth3953540605F1,350391207756610 |
| 16 McRae SA & NM Nambrok 3847 2K0054J 591 393 84 89 69 11 0.06 276 12 0.01 18 Lia TO & PM Pty Ltd Nilma North 3821 540184S 699 197 0 87 82 14 0.01 477 18 -0.04 18 Lambalk J & J Timboon 3268 650274B 1,354 429 0 87 64 10 0.07 233 10 0.00 20 Coster B & M Ripplebrook 3818 981306Q 2,095 855 271 85 63 99 0.08 173 10 0.04 20 Heywood GA Yarragon 3823 240851B 1,108 247 0 85 63 12 0.02 390 8 -0.12 23 Moscript ME CJ & JM Leongatha Sth 3953 540300E 877 195 0 80 55 11 -0.01 444 9 -0.15 24 Coates JD Allestree 3305< |
| 18 Lia TO & PM Pty Ltd Nilma North 3821 5401845 669 197 0 87 82 14 0.01 477 18 -0.04 18 Lambalk J & J Timboon 3268 650274B 1,354 429 0 87 64 10 0.07 233 10 0.00 20 Coster B & M Ripplebrook 3818 981306Q 2,095 855 271 85 72 11 0.07 268 12 0.00 20 Heywood GA Yaragon 3823 240851B 1,108 247 0 85 63 9 0.08 173 10 0.04 22 Green RJ LM & AE Tamworth 2340 N00416Q 752 169 477 82 63 12 0.02 390 8 -0.12 23 Moscript ME CJ & JM Leongatha Sth 3953 540300E 877 195 0 80 55 11 -0.01 444 9 -0.15 24 Coates JD Allestree 33 |
| 18 Lambalk J & J Timboon 3268 650274B 1,354 429 0 87 64 10 0.07 233 10 0.00 20 Coster B & M Ripplebrook 3818 981306Q 2,095 855 271 85 72 11 0.07 268 12 0.00 20 Heywood GA Yarragon 3823 240851B 1,108 247 0 85 63 9 0.08 173 10 0.04 22 Green RJ LM & AE Tamworth 2340 N00416Q 752 169 477 82 63 12 0.02 390 8 -0.12 23 Moscript ME CJ & JM Leongatha 5th 3953 540300E 877 195 0 80 55 11 -0.01 444 9 -0.15 24 Coates JD Allestree 3305 840377M 1,115 239 0 78 61 10 0.03 298 11 -0.02 25 Fielding R & D South Riana 7316 |
| 20Coster B & MRipplebrook3818981306Q2,0958552718572110.07268120.0020Heywood GAYarragon3823240851B1,1082470856390.08173100.0422Green RJ LM & AETamworth2340N00416Q7521694778263120.023908-0.1223Moscript ME CJ & JMLeongatha Sth3953540300E8771950805511-0.014449-0.1524Coates JDAllestree3305840377M1,11523907861100.0329811-0.0225Fielding R & DSouth Riana7316T34GFJM1,6513900765980.07157100.0526White KL & DM & RLLeongatha Sth3953540605F1,3503912077566100.0529312-0.0127Kennedy R & MCobains3850240025J1,48122807356110.013829-0.1127Lister Craig A SPCalivil35734A3216P1,1232911687356110.013829-0.1127Lawry AK & PMDingee35714A1819R2.34149012173529 <t< td=""></t<> |
| 20 Heywood GA Yarragon 3823 240851B 1,108 247 0 85 63 9 0.08 173 10 0.04 22 Green RJ LM & AE Tamworth 2340 N00416Q 752 169 47 82 63 12 0.02 390 8 -0.12 23 Moscript ME CJ & JM Leongatha Sth 3953 540300E 877 195 0 80 55 11 -0.01 444 9 -0.15 24 Coates JD Allestree 3305 840377M 1,115 239 0 78 61 10 0.03 298 11 -0.02 25 Fielding R & D South Riana 7316 T34GFJM 1,651 390 0 76 59 8 0.07 157 10 0.05 26 White KL & DM & RL Leongatha Sth 3953 540605F 1,350 391 207 75 66 10 0.00 369 10 -0.08 27 Kennedy R & M Cobains < |
| 22 Green RJ LM & AE Tamworth 2340 N00416Q 752 169 47 82 63 12 0.02 390 8 -0.12 23 Moscript ME CJ & JM Leongatha Sth 3953 540300E 877 195 0 80 55 11 -0.01 444 9 -0.15 24 Coates JD Allestree 3305 840377M 1,115 239 0 78 61 10 0.03 298 11 -0.02 25 Fielding R & D South Riana 7316 T34GFJM 1,651 390 0 76 59 8 0.07 157 10 0.05 26 White KL & DM & RL Leongatha Sth 3953 540605F 1,350 391 207 75 66 10 0.05 293 12 -0.01 27 Kennedy R & M Cobains 3850 240025J 1,481 228 0 73 56 10 0.00 369 10 -0.08 27 Lister Craig A SP Calivil |
| 23 Moscript ME CJ & JM Leongatha Sth 3953 540300E 877 195 0 80 55 11 -0.01 444 9 -0.15 24 Coates JD Allestree 3305 840377M 1,115 239 0 78 61 10 0.03 298 11 -0.02 25 Fielding R & D South Riana 7316 T34GFJM 1,651 390 0 76 59 8 0.07 157 10 0.05 26 White KL & DM & RL Leongatha Sth 3953 540605F 1,350 391 207 75 66 10 0.05 293 12 -0.01 27 Kennedy R & M Cobains 3850 240025J 1,481 228 0 73 56 10 0.00 369 10 -0.08 27 Lister Craig A SP Calivil 3573 4A3216P 1,123 291 168 73 56 11 0.01 382 9 -0.11 27 Lawry AK & PM Dingee |
| 24 Coates JD Allestree 3305 840377M 1,115 239 0 78 61 10 0.03 298 11 -0.02 25 Fielding R & D South Riana 7316 T34GFJM 1,651 390 0 76 59 8 0.07 157 10 0.05 26 White KL & DM & RL Leongatha Sth 3953 540605F 1,350 391 207 75 66 10 0.05 293 12 -0.01 27 Kennedy R & M Cobains 3850 240025J 1,481 228 0 73 56 10 0.00 369 10 -0.08 27 Lister Craig A SP Calivil 3573 4A3216P 1,123 291 168 73 56 11 0.01 382 9 -0.11 27 Lawry AK & PM Dingee 3571 4A1819R 2.341 490 121 73 52 9 0.03 258 8 -0.05 |
| 25 Fielding R & D South Riana 7316 T34GFJM 1,651 390 0 76 59 8 0.07 157 10 0.05 26 White KL & DM & RL Leongatha Sth 3953 540605F 1,350 391 207 75 66 10 0.05 293 12 -0.01 27 Kennedy R & M Cobains 3850 240025J 1,481 228 0 73 56 10 0.00 369 10 -0.08 27 Lister Craig A SP Calivil 3573 4A3216P 1,123 291 168 73 56 11 0.01 382 9 -0.11 27 Lawry AK & PM Dingee 3571 4A1819R 2.341 490 121 73 52 9 0.03 258 8 -0.05 |
| 26 White KL & DM & RL Leongatha Sth 3953 540605F 1,350 391 207 75 66 10 0.05 293 12 -0.01 27 Kennedy R & M Cobains 3850 240025J 1,481 228 0 73 56 10 0.00 369 10 -0.08 27 Lister Craig A SP Calivil 3573 4A3216P 1,123 291 168 73 56 11 0.01 382 9 -0.11 27 Lawry AK & PM Dingee 3571 4A1819R 2.341 490 121 73 52 9 0.03 258 8 -0.05 |
| 27 Kennedy R & M Cobains 3850 240025J 1,481 228 0 73 56 10 0.00 369 10 -0.08 27 Lister Craig A SP Calivil 3573 4A3216P 1,123 291 168 73 56 11 0.01 382 9 -0.11 27 Lawry AK & PM Dingee 3571 4A1819R 2.341 490 121 73 52 9 0.03 258 8 -0.05 |
| 27 Lister Craig A SP Calivil 3573 4A3216P 1,123 291 168 73 56 11 0.01 382 9 -0.11 27 Lawry AK & PM Dingee 3571 4A1819R 2.341 490 121 73 52 9 0.03 258 8 -0.05 |
| 27 Lawry AK & PM Dingee 3571 4A1819R 2.341 490 121 73 52 9 0.03 258 8 -0.05 |
| |
| 27 Lillico JM & V Smithton 7330 T13AHMV 3,164 771 0 73 49 9 0.01 328 8 -0.08 |
| 31 Little JR & SL / Martin D & Korumburra 3950 540600N 999 114 0 72 60 9 0.07 188 11 0.04 |
| 31 Derix GM & ME Maffra 3860 270031H 793 132 58 72 45 5 0.08 25 8 0.10 |
| 33 Walker AH & AR Yinnar South 3869 981403K 500 87 0 71 62 9 0.05 222 13 0.05 |
| 33 Flemming GM & PE Tocumwal 2714 4A1373N 1,343 263 114 71 58 9 0.04 268 11 -0.01 |
| 33 Pekin JF, A & JG Terang 3264 850550V 1,217 342 0 71 57 8 0.06 188 9 0.01 |
| 33 Holt Family Trust Bundalaguah 3851 240111W 1,022 73 0 71 55 6 0.09 47 10 0.11 |
| 37 Woodbine Holdings Pty Lancaster 3620 B20571E 2,612 807 0 70 60 11 0.04 319 7 -0.09 |
| 37 Tracy S Waratah Bay 3959 540162K 1,824 195 24 70 59 9 0.07 209 7 -0.02 |
| 37 TF Hutton And Sons Whcl0070 6271 W00088D 2.071 480 0 70 55 5 0.13 -65 9 0.17 |
| 37 Glasgow DC & EJ Bena 3946 540564F 624 150 0 70 54 11 0.02 359 7 -0.13 |
| 41 Oanwayje Farms Longwarry 3816 5C0049C 1,708 761 407 69 59 8 0.08 146 11 0.06 |

2014 Australian Breeding Values – Top Herd Summary

| APR rank | Owner name | Address | Post code | National Herd ID | Cows on file | Current cows | No. of (g) cows | APR | ASI | Prot. ABV | Prot % ABV | Milk ABV | Fat ABV | Fat % ABV |
|---|-------------------------|--------------------|--------------|---------------------|-----------------|-----------------|-----------------------|------|------|--------------|------------------|-------------|------------|-----------------|
| Top Jersey herds based on herd average APR, August 2014 ABVs | | | | | | | | | | | | | | |
| 1 | Hoey DM & L | Katunga | 3640 | 240699A | 1,047 | 222 | 135 | 111 | 93 | 10 | 0.22 | -13 | 17 | 0.33 |
| 2 | Glennen & CO C | Terang | 3264 | 850588C | 2,658 | 440 | 48 | 104 | 84 | 7 | 0.24 | -133 | 18 | 0.47 |
| 3 | Worboys R & A | Kotta | 3565 | C00993T | 1,119 | 212 | 0 | 85 | 60 | 5 | 0.17 | -82 | 12 | 0.32 |
| 4 | Boley Messrs PJ J | Karridale | 6288 | W00095S | 521 | 42 | 0 | 78 | 74 | 8 | -0.06 | 326 | 30 | 0.24 |
| 5 | Wyss Trading P/L | Boorcan | 3265 | 8506041 | 1,295 | 97 | 0 | 72 | 50 | 2 | 0.18 | -192 | 15 | 0.47 |
| 6 | McManus BT & CA | Bamawm | 3561 | C00935T | 734 | 158 | 0 | 70 | 52 | 5 | 0.15 | -67 | 9 | 0.25 |
| 7 | Moscript ME CJ & JM | Leongatha Sth | 3953 | 540300E | 1,012 | 98 | 18 | 66 | 40 | 2 | 0.14 | -138 | 12 | 0.37 |
| 8 | Bryce D & S | Allansford | 3277 | SO0002U | 68 | 67 | 12 | 63 | 42 | 6 | 0.06 | 81 | 5 | 0.02 |
| 9 | Codling & Baker | Larpent | 3249 | 740064P | 658 | 130 | 0 | 62 | 52 | 2 | 0.25 | -289 | 10 | 0.49 |
| 10 | JS & KL Tanner | East Framlingham | 3265 | 841827A | 310 | 40 | 0 | 60 | 29 | 2 | 0.09 | -61 | 7 | 0.19 |
| 11 | Bacon C & N | Lockington | 3563 | C01682H | 587 | 211 | 0 | 58 | 41 | 5 | 0.10 | 3 | 6 | 0.11 |
| 12 | Howie RH & JA | Heyfield | 3858 | 240270F | 356 | 58 | 0 | 57 | 32 | 4 | 0.04 | 58 | 7 | 0.08 |
| 12 | Bacon RLG & SL | Tennyson | 3572 | C00859H | 1,741 | 293 | 82 | 57 | 31 | 3 | 0.06 | 10 | 6 | 0.11 |
| 14 | Briggs RG & EH | Nanneella | 3561 | C00998L | 318 | 44 | 0 | 56 | 49 | 5 | 0.13 | -31 | 7 | 0.16 |
| 14 | Van Den Bosch JH & CA | Lockington | 3563 | C00927B | 377 | 57 | 0 | 56 | 38 | 1 | 0.19 | -232 | 8 | 0.38 |
| 16 | Smethurst Byron & | Timboon | 3268 | 650400L | 579 | 75 | 63 | 54 | 38 | 6 | 0.03 | 133 | 4 | -0.06 |
| 17 | Hill AJ, CA, SG & BF | Kolora | 3265 | 850478V | 652 | 203 | 0 | 53 | 40 | 3 | 0.13 | -97 | 9 | 0.26 |
| 17 | Akers R & H & G | Tallygaroopna | 3634 | C00637Q | 1,484 | 479 | 77 | 53 | 40 | 4 | 0.09 | -18 | 9 | 0.18 |
| 19 | Balnageith Jersey Stud | Warragul | 3820 | 260037W | 1,133 | 325 | 0 | 52 | 28 | 3 | 0.07 | 1 | 4 | 0.08 |
| 20 | Broad L & L | Lockington | 3563 | 240684H | 1,228 | 276 | 53 | 51 | 41 | 6 | 0.05 | 116 | 5 | -0.02 |
| Top R | ed Breeds herds based o | n herd average APR | , Augus | st 2014 ABVs | 5 | | | | | | | | | |
| Ayrshire | | | | | | | | | | | | | | |
| 1 | Johnstone B & R | Hawksdale | 3287 | SM0023T | 68 | 68 | 0 | -6 | 3 | -2 | 0.06 | -198 | 1 | 0.14 |
| 2 | Howlett VW & JS | Drumborg | 3304 | 840369R | 449 | 58 | 0 | -124 | -112 | -15 | -0.09 | -383 | -25 | -0.12 |
| 3 | Hyland MI & JR | Pinelodge | 3631 | C00642C | 1,071 | 148 | 0 | -136 | -112 | -15 | -0.12 | -334 | -21 | -0.10 |
| 4 | Pump GJ & AFS | Sheffield | 7306 | T37KPUB | 101 | 41 | 0 | -141 | -113 | -17 | -0.05 | -535 | -25 | -0.04 |
| Illawarra | | | | | | | | | | | | | | |
| 1 | Blue Range Pastoral Co | Allora | 4362 | Q01283M | 218 | 51 | 0 | -36 | -25 | -2 | -0.05 | -2 | -5 | -0.07 |
| 2 | Carson JH & GL | Irrewillipe | 3249 | 740170H | 62 | 36 | 0 | -46 | -41 | -3 | -0.08 | 36 | -10 | -0.17 |
| 3 | Chelmonte Farming | Brymaroo | 4403 | Q00203D | 1,322 | 196 | 0 | -52 | -52 | -10 | 0.00 | -370 | -7 | 0.12 |
| 4 | Williams G P & R C | Meningie | 5264 | 4A1868T | 1,238 | 335 | 0 | -58 | -45 | -6 | -0.04 | -124 | -11 | -0.09 |
| Aussie Red | | | | | | | | | | | | | | |
| 1 | Graham RW & BC | Numbaa | 2540 | N00555U | 1,404 | 536 | 0 | 90 | 42 | 5 | 0.04 | 120 | 9 | 0.06 |
| 2 | Raleigh, Jan | Timboon | 3268 | 650244V | 702 | 224 | 0 | 84 | 37 | 5 | 0.06 | 49 | 6 | 0.05 |
| 3 | Leppin T & LJ | Bena | 3946 | 540557N | 1,425 | 424 | 0 | 80 | 36 | 5 | 0.06 | 59 | 5 | 0.04 |
| 4 | Waltham GV & JL | Glengarry | 3854 | 240345U | 590 | 199 | 0 | 74 | 35 | 4 | 0.08 | 7 | 4 | 0.05 |
| Top Brown Swiss herds based on herd average APR, August 2014 ABVs | | | | | | | | | | | | | | |
| Brown | n Swiss | | | | | | | | | | | | | |
| 1 | Restdown Pastoral | Rochester | 3561 | C00871I | 1,697 | 509 | 0 | -2 | -1 | 0 | 0.01 | -21 | -1 | 0.01 |
| 2 | Brown E & Fisicaro S | Yalca | 3637 | 4K0080C | 106 | 74 | 0 | -5 | -2 | 0 | 0.01 | -20 | -1 | -0.01 |
| 3 | Cooltah P'ship | Narromine | 2821 | N01423J | 612 | 202 | 0 | -6 | -4 | 0 | -0.01 | 5 | -2 | -0.05 |
| 4 | Balfour PE & SM | Girgarre | 3624 | B21285J | 467 | 196 | 0 | -9 | -5 | -1 | 0.01 | -36 | -2 | 0.00 |

