“Beef cattle breeding in Australia”

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Land mass of Australia ~ mainland U.S.A.
Australia is a land of well-known, contemporary cities...
Strange sports like Australian Rules Football game – shown here at Melbourne Cricket Ground (MCG)
...and lots of beef cattle!!
United States (x $10^6$)

- 1.1 Seedstock Cows
- 35.7 Commercial Cows + replacements
- 13.6 (on feed)
- 43.2 Other Beef Animals (calves, steers, heifers and bulls)

Australia (x $10^6$)

- .39 Seedstock Cows
- 12.5 Commercial Cows + replacements
- .8 (on feed)
- 10.6 Other Beef Animals (calves, steers, heifers and bulls)
### US versus Australian Beef Industry

<table>
<thead>
<tr>
<th>Category</th>
<th>US</th>
<th>Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td># Beef operations</td>
<td>766,350</td>
<td>40,188</td>
</tr>
<tr>
<td>Average herd size</td>
<td>122</td>
<td>605</td>
</tr>
<tr>
<td>Herds &lt; 100 head</td>
<td></td>
<td></td>
</tr>
<tr>
<td># Producers (%)</td>
<td>692,050 (90%)</td>
<td>12,017 (30%)</td>
</tr>
<tr>
<td>million cows (%)</td>
<td>14.4 (49%)</td>
<td>0.4 (3%)</td>
</tr>
<tr>
<td>Herds &gt; 500 head</td>
<td></td>
<td></td>
</tr>
<tr>
<td># Producers (%)</td>
<td>5,850 (0.8%)</td>
<td>11,042 (27%)</td>
</tr>
<tr>
<td>million cows (%)</td>
<td>5.1 (16%)</td>
<td>10.3 (80%)</td>
</tr>
<tr>
<td># Feedlots</td>
<td>82,170</td>
<td>712</td>
</tr>
<tr>
<td>Million Fed (2009)</td>
<td>26.0</td>
<td>2.3</td>
</tr>
</tbody>
</table>
California: Population 36,961,664
Australia: Population 22,328,800
Sheep population ~ 100,000,000
Alison Van Eenennaam, Jack and Barbara Cowley, Barbara and Juan Medrano, and host Wayne Upton (AGBU – Australia)
Region 11: Located to the north-east of Melbourne is the Yarra Valley. Region 6: Western district and Great Ocean Road.
The focus of Paringa is to use performance recording and all of the available tools to obtain accurate EBVs to identify the best genetics.
Al Sire Update - Charolais

We have selected our two proven sires D21 and Colorado, as well as Paringa Max (the current number 2 bull in the breed) on Domestic Index. Our bulls have been extremely well received commercially. We have priced our bulls separately for commercial use and stud use. Please contact us for a semen price listing.

Semen to these high performance Charolais bulls represent a good opportunity for all breeders to move their businesses forward, faster. Unique Euro MSA busters.

We have changed the format of how we have presented the Breedplan data and replaced “accuracy” with “% Breed Rank” under the EBV’s. We would be interested to see what your thoughts are on this format. It really highlights just how strong these high performance bulls are across many economic traits.

PARINGA RIO BRAVO D213E - The Breedchanger

82

12 months old

Now this most attractive package is progeny proven in the Paringa and Ashwood Park Charolais herd and also the Charolais Progeny Test Program. His calves are born early, easily and have tremendous vigour and survival with growth and muscle well.

- He ranks in top 1% for Calving Ease, Birth Weight and Marbling
- Ranks #1 of all animals for fat cover
- Ranks #3 for all animals Domestic Index with progeny

This bull’s progeny will blitz MSA while still producing progeny slaughter females that won’t need HGP’s.

Owned by Ashwood Park and Paringa Livestock. Full brothers sell March 2011 at Paringa bull sale.

Al Sire Update - Red Angus

Latest multi-breed data shows just how good our Red Angus cattle are. Our Red Angus are true performance cattle that excel at all traits of economic significance. Compared to most North American based Red Angus, Australian Red Angus excel for carcase, structure and generally much better hair type.

Don’t be fooled with cattle that just have good photos taken after they have been on feed for 12 months. Check out for yourselves just how our Red Angus perform compared to the rest.

Red Hot Baldy Alliance

We have initiated an exciting new opportunity involving a breeding program using our Red Angus with Hereford or Shorthorns, through AI and natural matings to jointly market the Red Baldy females. They are an outstanding prospect to join to our Charolais or our Red Stabilizers.

The “Baldy” is the ultimate maternal machine but by providing a truly unique Red Baldy with calving ease, maternal/high carcase Red Angus bulls we can market a female that is highly sought after.

Benefit to the Hereford/Shorthorn Breeders:
1. Fixed cost of genetics (semen & bulls)
2. Highly proven calving ease sires
3. Maintain red coloured animal that are in high demand due to shortage
4. Angus cross steers by Paringa Red Angus are sought after and fit CAAB
5. Red cattle crossed with Charolais are more marketable

Al Sire Update - Stabilizer

As a part of our Stabilizer program we are fortunate to offer you semen on our unique Simmental Influenced Black Stabilizers. These bulls combine the influence of Hooks Shear Force and Dream On and some of the best maternal Angus in the US and New Zealand. These bulls are suitable for heifers.

Benefit of Stabilizers:
- Increase heifer pregnancy rates
- Increase live calves earlier
- Increase longevity in cows and bulls
- Increase yield and maintain marbling
- Increase maternal longevity
- Increase kilograms beef per Hectare
- Big bang when mated with Paringa Charolais
- Improve temperament and handling

LCOC BREEDLINE STABILIZER 885

885 is a super, sound, attractive Grandson of Dream On from a productive Stabilizer line with excellent temperament and structure.

We feel this bull and his sons have a lot to offer our commercial clients to improve performance in herds and saleable meat yield.

18 month old — NZ Import

Van Eenennaam 11/16/2011
A single entity does genetic evaluations for all breeds

WELCOME TO BREEDPLAN

BREEDPLAN is a modern genetic evaluation system for beef cattle. Using Best Linear Unbiased Prediction (BLUP) technology, BREEDPLAN produces Estimated Breeding Values (EBVs) for cattle for a range of important production traits.
BREEDPLAN currently reports EBVs for a range of economically important traits. These traits include:

<table>
<thead>
<tr>
<th>Weight</th>
<th>Fertility/Calving</th>
<th>Carcase</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>Birth Weight</td>
<td>Scrotal Size</td>
<td>Eye Muscle Area</td>
<td>Docility</td>
</tr>
<tr>
<td>Milk</td>
<td>Days to Calving</td>
<td>Fat Depth</td>
<td>Net Feed Intake*</td>
</tr>
<tr>
<td>200 Day Growth</td>
<td>Gestation Length</td>
<td>Retail Beef Yield</td>
<td>Structural Soundness*</td>
</tr>
<tr>
<td>400 Day Weight</td>
<td>Calving Ease</td>
<td>Intramuscular Fat</td>
<td>Flight Time*</td>
</tr>
<tr>
<td>600 Day Weight</td>
<td></td>
<td>Carcase Weight</td>
<td></td>
</tr>
<tr>
<td>Mature Cow Weight</td>
<td></td>
<td>Shear Force*</td>
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** Trial EBV

The above traits cover several areas of vital importance to both bull breeders and commercial producers. This allows a balanced approach to designing efficient breeding programs for various environments and to target specific markets.

**Gestation Length EBVs** are estimates of genetic differences between animals in the number of days from the date of conception to the calf birth date. Gestation Length EBVs are expressed in days and are calculated from the joining date and birth date records for calves conceived by either AI or Hand Mating.

**Days to Calving EBVs** are estimates of genetic differences between animals in time from the start of the joining period (i.e. when the female is introduced to a bull) until subsequent calving. Days to Calving EBVs are expressed in days and are calculated from the joining records submitted for females.
Dung Beetles Down Under
Let it happen for you!

www.dungbeetlesdownunder.com
Supplier of *Bubas bison*
dung beetles
from Kangaroo Island,
South Australia
Agent: Hoges Hogan
Ph: 0428 304 743

The secret of profitable soil fertility

Are you spending more and more money on fertiliser to grow grass, but are not being paid any more for the cattle you produce?

There is a natural and very economical way to increase soil fertility, improve soil structure, and give you more pasture growth. Vast areas of Southern Australia where cattle and horses graze are well suited to establishing *Bubas bison* dung beetles. When abundant, they make it possible to significantly reduce input costs, while increasing production.

Once established, the beetles will breed up in numbers until they are limited by the supply of dung. They can go on indefinitely providing benefits to soil fertility and structure at no cost.
Where in the beef cattle supply chain might DNA tests generate value

Topic: Genomic products

Dr. Alison Van Eenennaam
Cooperative Extension Specialist in Animal Genomics and Biotechnology
Topic: Where in the beef cattle supply chain might DNA tests generate value

Dr. Peter Pamell
Chief Executive Officer
Angus Australia, Armidale, NSW Australia
Topic: Genomic influences on industry structure
Conference Banquet (at MCG) Dress: Evening informal
Post-conference tour of the Western district

Van Eenennaam 11/16/2011
The herd now spans 1600 breeding cows, under the management of Tom Gubbins and brother-in-law, Hamish McFarlane, at Mortlake in Western Victoria.
Animals are kept in large (>300) contemporary groups to achieve more effective progeny in each group.

“The phenotype (what you see) is made up of the genotype (inherited factors) plus the environment (all other factors). If we put animals in large groups where the environment is the same, then we can compare genotypes.” — Tom G.
They also progeny test a significant cast of sires each year - both on-property and through the Team Te Mania commercial progeny test herds.
The motto of Te Mania Angus is “breeding better beef”, and they have developed a partnership with Australian beef cattle producers called “Team Te Mania”. Team members work together to produce high quality beef cattle and collectively market them through a nationally recognized brand. Established in 1995, this commercial alliance incorporates breeding stock throughout Victoria, New South Wales and South Australia.

Team members have access to the latest genetics of the Te Mania Angus nucleus herd through a bull leasing program and discounted (cost price) artificial insemination. The bull leasing program is backed by a 48-hour replacement guarantee. The Team program is based on the eventual exclusive use of Te Mania Angus genetics in Team herds. There is a phase-in period while bulls in each member’s herd are gradually replaced with Team Te Mania lease bulls and/or subsidised semen. The progeny of all Team Te Mania semen and lease bulls become the property of the Team member. All male progeny must be castrated.
Animal Biotechnology and Genomics Education

Van Eenennaam 11/16/2011
**Long Fed / CAAB $Index**

Suitable for a self-replacing commercial herd in temperate Australia targeting the production of steers for the long-fed markets that value marbling and 600 day growth.

**ECONOMICALLY – RELEVANT TRAIT**

- Calving ease direct: 14%
- Calving ease daughters: 9%
- Birth weight: 1%
- 600 day weight: 26%
- Mature cow weight: -12%
- Milk: 1%
- Days to calving: -1%
- Eye muscle area: 7%
- Retail beef yield (%): 5%
- Intramuscular Fat %: 19%

Van Eenennaam 11/16/2011
Genetic trend for Angus Long Fed / CAAB $Index

Estimates the genetic differences between animals in net profitability per cow joined for a high fertility self replacing commercial Angus herd in temperate Australia targeting pasture grown steers with a 270 day feedlot finishing period for the high quality, high marbled Japanese export market. Steers are assumed marketed at 740 kg live weight (420 kg HSCW and 25 mm P8 fat depth) at 26 months of age. Significant emphasis is placed on marbling and 600 day growth.

*Van Eenenenaam 11/16/2011*
**Angus Breed Trait Leader for: Calving Ease, Gestation Length, 400 and 600 Day Weight, Scrotal Size and Eye Muscle Area**

Te Mania Africa A217 has been extensively progeny tested through Team Te Mania and throughout the commercial and seedstock industry. His sons show lots of natural thickness with plenty of bell shape, style and structural soundness. He is an ideal seedstock and commercial heifer bull with calving ease and explosive growth. Africa is having a big impact on bull sale results around the southern states. His dam, Te Mania Jeddah 32 continues to excel. Africa is a trail leader six times and has 911 progeny recorded on Angus Group Breedplan within 34 herds. As a mark of his standing, at our 2010 Southern Autumn bull sale we sold 10 sons for an average of $10,150 and a sale top of $23,000 and at our 2011 Autumn bull sale we offered two sons who sold to $30,000. His sons have dominated and been sale toppers at other Autumn sales in 2011.

**2011 TE MANIA ANGUS SEMEN PRICE LIST**

- **To Mania Unlimited U3271**
  - 1 to 9 straws: $350
  - 25 to 49 straws: $250
  - 50 to 149 straws: $150
  - 150+ straws: $100

- **To Mania Ultron U41**
  - 1 to 9 straws: $100
  - 25 to 49 straws: $75
  - 50 to 149 straws: $50
  - 150+ straws: $40

- **To Mania Yorkshire Y437**
  - 1 to 9 straws: $200
  - 25 to 49 straws: $150
  - 50 to 149 straws: $100
  - 150+ straws: $75

- **To Mania Berkeley B1**
  - 1 to 9 straws: $100
  - 25 to 49 straws: $75
  - 50 to 149 straws: $50
  - 150+ straws: $40

- **To Mania Daiquiri D19**
  - 1 to 9 straws: $100
  - 25 to 49 straws: $75
  - 50 to 149 straws: $50
  - 150+ straws: $40

- **To Mania Africa A217**
  - 1 to 9 straws: $100
  - 25 to 49 straws: $75
  - 50 to 149 straws: $50
  - 150+ straws: $40
Tom Gubbins named Livestock Producer of the Year

08 Sep 2011

Leading Australian Angus seedstock producer Tom Gubbins was named Australia’s Livestock Producer of the Year at the 2011 Australian Farmer of the Year Awards in Sydney last night.

The awards are hosted by the Kondinin Group and ABC Rural, and saw the top gong for Australian Farmer of the Year for 2011 awarded to fourth-generation Horsham, Victoria, crop producer Robert Ruwoldt.

According to the Livestock Producer of the Year award citation, Te Mania Angus, owned and run by the Gubbins family, holds, or has held, every Angus on-property and show sale record — highlighted by its $91,000 bull Te Mania Emperor sold during March this year.

“Its dominance of the Angus Group Breedplan EBVs is unparalleled, with twice as many trait leaders as the next nearest stud,” the citation said.

“The Gubbins family has also made a major commitment to renovating and extending wetlands and the ecosystem on its western Victorian property where the breeding herd is run.

“A pioneer of objective measurement and the use of both AI and ET in accelerating the genetic profile of the breed, Te Mania Angus also imported one of the great foundation sires in the early days of the Angus breed’s explosion to its current position as the country’s leading British Breed animal.

“Director Tom Gubbins has continued the work that started with his grandfather in New Zealand, establishing a gene pool with more than 80 years of breeding excellence.

“Te Mania Angus is also recognised as a breed innovator, with its recent switch to big-screen on-property bull sales its latest step forward.
DNA Testing? “Te Mania Angus will use DNA Estimated Molecular Breeding Values (EMBV) once the traits are calibrated for Australian conditions and cattle. We need to wait until we know what effect they will have on the herd before we can apply this technology.” Tom Gubbins
Breakfast with the lot!
The Twelve Apostles
Great Ocean Road
Australian beef breeders take their profession very seriously!
Partial funding for ranch tour provided by “Applied Genomics for Sustainable Livestock Breeding” Professional Development Program for California grant from Western Sustainable Agriculture Research and Education (SARE) to ALV.