2018 LOGIX elite NUUS NEWS 1

Welcome!

A hearty welcome to the first edition of Logix News, the ELITE source of news for Stud Book participants and friends. The newsletter addresses the need to keep livestock producers in touch with issues affecting them, expand knowledge and to be part of latest developments in producing livestock products more efficiently.

The newsletter also serves as a means for the Logix family to know more about each other. We at Stud Book are proud to present you with the first Newsletter and are looking forward on many to follow. In this first edition, we present the production regions and our technical advisors. The Elite competition is also in full swing and this newsletter covers that as well. Enjoy reading it and use the information to you advantage.

Dr Helena Theron is the editor of the newsletter. Please convey any ideas and news to her. Her email is: helena@studbook.co.za subject: Newsletter.

ENJOY!

Japie van der Westhuizen
Acting General Manager

Syferfontein Bonsmaras (Photo: Helena Theron)

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Briefly

Dr. Japie van der Westhuizen

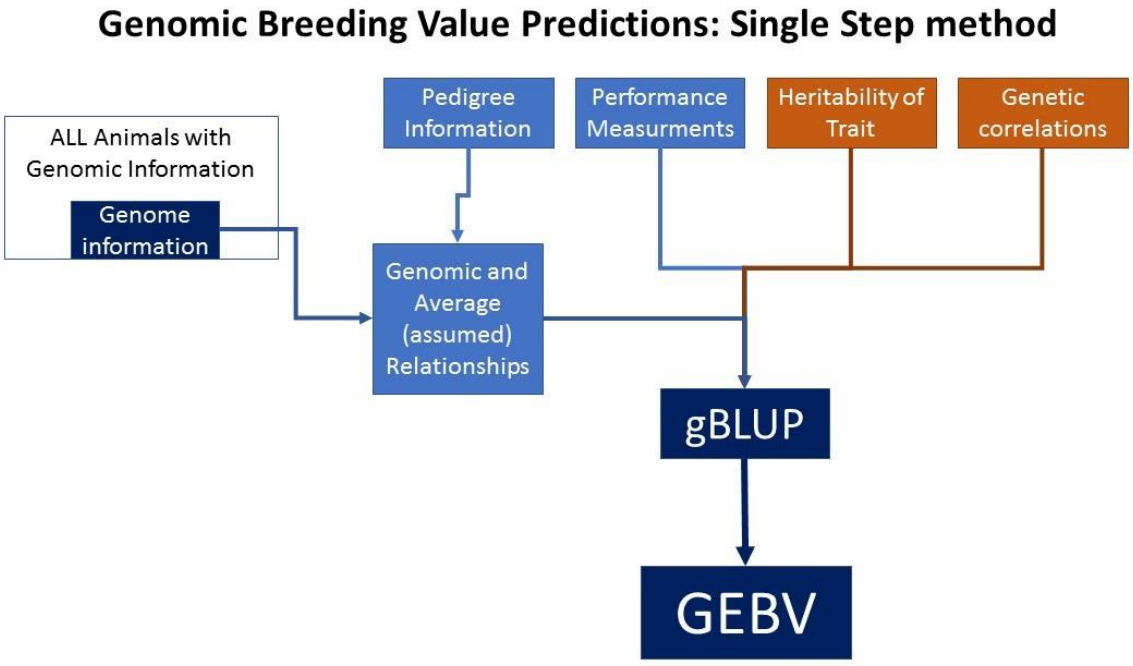
The loyalty and generosity of Stud Book breeders

The representatives of the Breeders' Societies at the Special General Meeting of Stud Book held on 23 February 2018 spontaneously suggested that they approach their members to voluntary donate towards Stud Book's commitment in terms of the settlement agreement with the ARC. This proposal was unanimously accepted by the meeting. As a general guideline, the recommendation is to donate R500 per breeder per stud herd. The South Devon Breeders' Society took this one step further by committing, as a society, to donate on behalf of all the members of the Society. Thank you very much!

The response from breeders has been very encouraging with many exceeding the recommended amount. We would like to acknowledge your loyalty and generosity, and thank your willingness to contribute in the interest of the Association.

A single step with a real difference

Stud Book's focus and main business is to make a substantial positive difference in the profitability of livestock production. Accurate diligent recording of properties of importance stays the core practice to achieve this. It all starts with the recording of animal information, including linage and traits or properties that separate desirable selection candidates from the rest. Stud Book can only be of relevance if we keep in touch with the latest scientific and technical



developments in animal breeding and genetics. Results of the latest research can however, only have real value if it can successfully be applied by breeders.

For the past three years, dairy breeders have already been enjoying the benefits of a genomic service by Stud Book. The comparative basis of obtaining the genetic merit of local dairy animals with or without the inclusion of genomic information is the result of Stud Book's participation in Interbull's international genetic evaluation service. Direct Genomic Values can therefore be expressed on the local scale and directly compared to our national herd. This makes it possible to combine these values, based on their reliability, with the local BLUP breeding values, as u very useful selection tool for breeders. The very competitive price of R849 (VAT excluded) per animal will ensure that the reliability of genetic merit prediction will reduce the selection risk for young bulls and heifers.

A hair sample showing hair follicles from which DNA is extracted.

The big step for beef cattle breeders was the introduction of the Single Step to produce genomic breeding values for the Bonsmara and Beefmaster breeds. This is the latest (but proven) methodology to incorporate genomic information in BLUP breeding value predictions. This is especially of value for traits not measurable due to the sex of the animal, such as milk or female fertility. The cost is R777 (VAT excluded) per animal.

Stud Book looks forward to soon extend this service to the other breeds that formed part of the Beef Genomics Program.

HORSEChamp

Horse Champ - A dynamic new Show Program for Horses

The need for a more comprehensive program to address all the needs of modern horse showing is in the making. Stud Book has engaged with the horse owners, trainers, show experts and other people in the horse industry to develop Horse Champ. Horse Champ allows entrants in horse shows to register on-line, prior to any upcoming show. Its real value is to verify all the information of the horses against the Logix database giving peace of mind to organisers and fellow competitors. Once the show is on, Horse Champ will objectively use the scores and other information from judges to calculate, tabulate and report the correct results. Reconciliation is also done, assisting organisers, clubs, regions and ultimately the relevant Breeders' Society to trust the results and to validate them, if needed. Horse Champ has been successfully tested at a recent Boerperd show and will be put to the real "acid test" at the annual South African Saddlebred Championships to be held at Bloemfontein during 23-28 April 2018 where it will be "beta tested" parallel with the current program in use.

Mating decisions for Beef Cattle: The next steps in SABeefBulls.com

www.SABeefBulls.com, the Logix driven Web system engage on new grounds for beef cattle. It allows users to run own searches for animals complying with their breeding objectives and using them in optimal matings to restrict inbreeding in the progeny but, at the same time, reaching self-defined breeding objectives. The development is currently being scrutinised and tested. Results are extremely promising.

In the meantime, users can use the very handy search facility of SABeefBulls to obtain information of beef cattle adhering to own search criteria. The introduction of QR Codes on Logix reports, including sales catalogues, give immediate access to the information on SABeefBulls.com. Use your cell phone or tablet to test it (use a QR code reader application).

Left: Bertus and Rene Theron at Livestock Expo where school kids are shown the value of dairy, with Daneel Roussoux of Nedbank. Right: Curious cows inspecting new equipment in the barn (Photos: Chanelle Steenekamp)

Photo: Chanelle Steenekamp

Western Cape: Chanelle Steenekamp

Tel: 072 836 4108
E-mail: chanelle@studbook.co.za

Chanelle Steenekamp studied at Stellenbosch University and her expertise lies in dairy and beef cattle genetics, nutrition, livestock management and administration. She has 5 years of experience and was stationed in Bellville. The industries she serves in her region are mainly dairy cows, but also dairy goats, beef cattle, sheep and horses. There are also about 5 beef cattle growth tests that are currently ongoing.

Dairy Cattle

The big news in the Cape is whether Day Zero will arrive, when taps will run dry. Farmers are already using 45% less water. The milk recording cycle kicked off in mid-January and, despite the drought and difficult circumstances, farmers' milk data figures look very good. A high point for our region is the constant flow of new dairy farmers who are participating in SA Stud Book's internationally accredited milk recording service. Milk recording data can be entered into your management program on the farm to see and ultimately use the cows' milk composition values for decision making. This therefore allows for more accurate management decision making, eg. for a specific lactation group, stage of lactation or calf raising group. Call Chanelle Steenekamp 072 83 64 108 to assist you with your health and management report.

The collaboration between Stud Book and the new Swift lab in Claremont is in full operation. The milk boxes are picked up on a routine basis every week by the lab. Marico Adams is their new technician in the milk-analysis team. At the lab, they also test raw milk and analyze water and micro products. For further inquiries about lab services, call Monique Visser 082 611 9061.


Photos: Chanelle Steenekamp

Breeders of participating breeds have pulled their animals' tail hairs for the DGP (Dairy Genomics Project) and we thank all those who were willing to participate, as well as Mirtelize of SA Holstein for her cooperation.


Left: Some farmers in the Western Cape receive school groups on their farms and teach them about cattle and the dairy industry. The photograph on the left shows a school group at De Grendel, who welcomes such groups on a monthly basis. Should other farmers also receive school groups, please contact Chanelle so that we can share in these information days. Rights: Chanelle is also involved in the Western Cape Jersey Club and is happy to assist in the Youth Show. (Photos Chanelle Steenekamp)

Beef Cattle

Beef cattle herds also started farm growth tests in the Western Cape for 2018. The duration of such a test is for at least 85 days on the farm and is terminated by Chanelle in cooperation with the breeder. Growth and other important production traits are measured and are used to estimate breeding values. RTU measurements for carcass traits like eye muscle area, fat thickness and marbling on live animals can also be done. Contact Chanelle for information.

Chanelle is serving her third year as secretary at the Western and Southern Cape Angus club. The club held their Open Day on March 22, 2017 at Jannie Kotze's farm, De Panne, outside Moorreesburg. Dr Japie van der Westhuizen of Stud Book acted as guest speaker and spoke about Genomics and the www.SABeefBulls.com mating program. For further information contact Jannie Kotze 083 651 9266.

'Back to Basics' Genetic Days

Genetic Days were successfully held in the Western Cape. These 'Back to Basics' Genetic Days were held over three days, with dairy, beef and sheep breeders attending the sessions. Over the three days, 70 farmers were present, as well as representatives of semen companies, the media and other role-players from the industry. The sessions started with an in-depth theoretical session on the history of production recording and how it is applied to today's measurements and technology. This was followed by a practical session where each herd could work through its own genetic report. The next Genetic Workshop will be held at the Royal Show in Natal.

Left top: Participants of the Small Stock course. Top: Presenters of the 'Back to Basics' days Chanelle Steenekamp, Helena Theron and Bernice Mostert. Left bottom: Participants of the Dairy course.

Photos: Links: Helena Theron; Above: Veeplaas

Stellenbosch University hosted its first Livestock day at the end of last year, where 120 animal scientists and others involved with animal science, were invited from the industry. The aim was to pass on the research conducted at the university to the industry that, in turn can be conveyed to the farmers. Earlier this month, Brink van Zyl, Prof Theo Kleynhans, Chanelle and the MPO Western Cape met to put in place a strategy to promote research for dairy farmers.

Chanelle Steenekamp attended the Western Cape Health Forum on 7 February 2018, in Worcester. It was attended by numerous industry players, namely animal scientists, veterinarians and industry organizations. Discussion points on the agenda were Veterinary Strategy, Brucellosis Model, Animal and Game Interface, Veterinary Availability, Animal Identification, Movement, and Animal Welfare.

Black Angus cattle in the Eastern Cape. (Photo Japie van der Westhuizen)

Eastern Cape: Ruann Kruger

Tel: 082 7660 562
E-mail: ruann@studbook.co.za

Ruann Kruger is stationed at Jeffrey's Bay and grew up on a game and cattle farm. After graduating from the University of the Free State, he returned to the farm for a few years. He also farmed in America for a year before joining SA Stud Book. He had a Bonsmara herd and also completed a professional hunter course. His interests are mainly beef cattle but he has learned a lot of dairy cattle and milk systems lately and finds it very interesting.

There are about 100 active beef herds in the Eastern Cape, of which 9 herds regularly perform farm growth tests. The first Bonsmara herd that has genomically tested all of its animals is also located in the region. There are 45 active dairy herds who take milk samples every 5 weeks. The herds are all predominantly grazing herds, but due to the terrible drought, they had to switch to partially mixed rations. A large portion of the dairy herds are located in the Southern Cape, up to Riversdale. The region also has about 77 active small-stock herds. A second bull growth testing centre, where individual feed intakes are recorded, recently opened in the region. The centre's first test will be concluded on March 27, 2018.

Elite-day

We held our Logix Elite farmers day on March 7, 2018, where top dairy and beef cattle herds received prizes. There were also some interesting lectures and speakers. The day kicked off by viewing the top animals of the president of the Angus Society, Andrew Masterson. Participants viewed Angus, Simmentalers, Jersey and Holstein cattle. At the information session, Prof. Robin Meeske spoke about the importance of drought nutrition and the role www.SADairyBulls.com plays in decisions at the Outeniqua dairy herd. Louis Steyl from Bonsmara SA talked about precision farming in beef cattle made easier by performance measurement. Dr Japie van der Westhuizen spoke about genomic selection.

Left: CS Puttergill is the winner of Eastern Cape Elite Milk. Right: The winner of the Eastern Cape Elite Beef is J Stirk (award accepted by louis Steyl on behalf of Justin).

Well attended Free State Elite Day, Photo: Gerdus de Klerk

Western Free State & Central KZN: Siebert Vermeulen

Tel: 051 4100 972
E-mail: siebert@studbook.co.za

Siebert Vermeulen is stationed in Bloemfontein and studied in Pretoria and Bloemfontein. He has 36 years of experience and is an expert on feed efficiency of beef cattle and sheep evaluated at private testing centres.

In this region there are 185 beef herds, of which 61 regularly do farm-growth tests. There are also 3 bull testing centres (recording individual feed intake) in the region, namely Sernick at Edenville, Roux at Kroonstad and Cronje at Bultfontein. Please contact Siebert if further information is required.

Elite

The region has had a very exciting Beef Information Day on 21 February 2018 in Bloemfontein at Reyneke Park, where 135 non-breeders and 114 farmers (breeders and managers) were present.

Dr Japie vd Westhuizen, Phillip and Vicky Barnard (East Free State Elite Beef winner), Henri Viljoen (Afgri Animal Feed, speaker), Desireé and Wilhelmus van der Schyff (West Free State winner).

Beef cattle BLUP course

The annual complete Breeding Value (Blup) course will be held in Bloemfontein, 22 - 24 May 2018. Contact Elsa at Stud Book (elsa@studbook.co.za) if you or someone from your herd is interested. More information appears at the bottom of the newsletter.

Interesting cases at growth tests

Left: bull with a congenital hare lip. Middle: Bull with a split scrotum. This is not acceptable. Right: Bull with exceptional length. He has a good hair quality and an exceptional thick skin as seen by the wrinkles (Photos: Siebert Vermeulen).

Free State and Eastern Cape: Gerdus de Klerk

Tel: 072 691 3600
E-mail: gerdus@studbook.co.za

Gerdus lives in Jan Kempdorp in the Vaalharts Irrigation Scheme in the Northern Cape. He grew up on a farm and studied at CUT (Central University of Technology) in Bloemfontein, where he obtained a National Diploma in Agricultural Management. The diploma covered grazing, general management, agricultural engineering, finances and animal science. He has practical experience with the famous Bonsmara breeder Kit Thompson and has also worked on several farms in the USA. He joined SA Stud Book in 2014. He runs his own intensive sheep farm. He married in 2017. His passion in life is to do what he does as effectively as possible with what he has at his disposal. He is particularly interested in mixed farming practices with livestock and irrigation.

The region has mainly beef herds and many sheep herds as well as a few game and dairy herds. Gerdus is involved in bull growth tests that on average annually test about 2500 bulls of which about 30% are RTU scanned for determination of carcass quality traits. Most breeders have mixed farming practices and do their growth test evaluations on grazing and additional feed in the summer. The 2018 growth tests will soon be finalized. The drought also showed its teeth and had an impact on the number of animals tested in growth tests.

Three Dairy Platinum awards from the Free State! Left to right: ***Hannes Pretorius*** *– MD Foundation Holstein – Final mark 71.39; Rampie de Wet;* ***Jaco Hendriks*** *– Inovula Edms Bpk Holstein – Final mark 73.10; Dr. Pieter Henning – Meadow Feeds;* ***Willie Pretorius*** *– MD Foundation Jersey Final mark 72.94.*

Free State: Rampie de Wet

Tel: 051 4100 973
E-mail: rampie@studbook.co.za

Best Somatic Cell count (Ayrshire) Hantie Marais of Jawilco Ayrshires

The Free State is currently still not really recovering from one of the worst droughts in decades, especially the central and western parts that are still under severe pressure. In general, the Eastern Free State is much better, and the crops look promising. Over large areas, very good rain has fallen, but it was not enough to fill the dams and the average dam levels are still critically low. The drought and the provision of good quality roughage meant that many dairy farmers had to incur large costs. In many farms, the water supply has also become problematic and on some farms water had to be transported at enormous cost. Due to various reasons, many farmers stopped dairy farming in recent years, which has a very negative impact on the general economy of the Free State and causes job losses. The pattern where smaller dairy herds are sold to larger dairy farms are also increasing, causing a sharp decline in the number of dairy herds, while remaining herds are becoming bigger. The greater pressure on remaining dairy herds, in turn, causes a noticeable improvement in the effectiveness of these herds. We also experience that during bad times dairy farmers are increasingly using more of SA Stud Book's dairy management reports and other information to increase herd effectiveness. We have also received inquiries from dairy farmers in the past year that seek help / information on especially somatic cell counts and milk solids analyzes, including dairy farmers who do not participate in the SA Stud Book's Logix Milk. The greater demand for full fat and good quality dairy products increased the pressure on dairy farmers to deliver a product conforming to the demands of the market.

Best Somatic Cell count (Holstein) Hannes Pretorius of MD Foundation

Despite the less favourable circumstances, Stud Book acknowledged dairy herds that achieved above average production performance. The prize giving took place on 5 October 2017. Thank you very much to the dairy farmers who participate in SA Studbook's Logix Production Recording System and thank you very much too all the sponsors who made this opportunity possible.

Gauteng, Mpumalanga & KwaZulu-Natal: Thalia Brameld

Tel: 071 493 1111
E-mail: thalia@studbook.co.za

Thalia Brameld is stationed in Gauteng. She has studied at the University of Pretoria and has 10 years experience as advisor to dairy farmers and in milk recording. She is married with two children aged 2 and 4.

Thalia is responsible for marketing and coordination of Logix Milk recording, with the correct capturing of data for management purposes and breeding values. She also interprets scientific management reports, on an ongoing basis, from data acquired from analysis of milk samples, into management applications for the client.

Thalia can be contacted regarding any of the following:

- Production and management systems- Advise farmer
- Animal behaviour- A continual study is conducted in the field, assessing the behavioural patterns of livestock and the effect of this on their production. This includes social interaction, dominance, heat observation, stress detection etc.
- Interpretation of udder health and working of milking machine and parlour- Accessing the behavioural changes in dairy animals during milking, milking procedures and hygiene of the milking parlour. Addressing Somatic cell count levels in conjunction with lactose percentage in milk to determine health and wellbeing of dairy animals.
- Nutritional management assessment- work closely with feed advisory technicians, in terms of assessing quality and quantity of feed, and the effects on livestock and production. Also addressing the management of feeding spaces and practices of administering feed for dairy cows to ensure that correct consumption of feed takes place. Advise farmers of nutritional needs of cows in different stages of lactation, for optimal milk production and animal health.
- Reproductive management assessment in herd- Determining the herd fertility and conception rate of livestock, working out the average inter calf period, assessing any reproductive disorders or abnormalities, advising farmers when to inseminate, the success rate of inseminations, insuring that livestock are in an optimum energy balance and that milk urea nitrogen levels are adequate for conceptions in dairy cows.
- Genetic progress of herd- Assist farmers in determining the strongest and most productive genetic composition in their herd, through a built up history of individual cow assessments and breeding values of each cow.

The phenomenal Hydeaway XF Fiona, owned by Joyful Jerseys, is shown here pregnant with her 11th calf. She is currently 14 years old and milking her 10th lactation. Her average inter-calf period is 387 days across ten lactations, with an average of 2.2 AIs per calving. She has milked about 45 000 litres in her lifetime, with her butterfat percentage usually 5.5% or higher. Joyful Jerseys owns two of her daughters; Joyful Chili Fiona, who is fresh in her first lactation, and Joyful Joel Fiona, who is almost ready to AI for the first time.

North West & Northern Cape: Dolf Cloete

Tel: 082 660 3266
E-mail: dolf@studbook.co.za

Dolf Cloete is stationed in Vryburg. He studied at Potchefstroom and has 34 years of experience. His expertise lies with all aspects of beef cattle.

There are 201 beef herds in the region participating in Logix Beef. Of these participants, 44 regularly do farm-growth tests. There are 2 dairy herds, who actively partake in Logix milk, as well as 171 sheep flocks, 275 horse herds, 5 game farms and 62 dog breeders in the region recording with Stud Book. Horse herd sizes range from 1 to 197 animals per herd.

The last two seasons were very dry in the region, forcing breeders to reduce herd sizes. The rain has only fallen late in the season, and although most of the region is green, some parts have had little rain. Most stud herds occur in the maize-producing part of the region. For them the rain was unfortunately too late and a lot less maize was planted than usual. Breeders are currently rebuilding herds, which mean that current beef prices and therefore stud animal prices are very good.

Dolf is planning a breeding value course again this September. If you are interested, please contact Dolf at dolf@studbook.co.za

Interesting cases at the end of growth tests

Left and Middle: Double muscled bulls. Right: Extreme case of post leggedness. (Photos: Dolf Cloete).

The bull on the right has very upright legs. He should be culled as upright heels adversely affect the mating ability of the bull. The other photos show bulls with a condition called double muscling. Due to the extent of the occurrence of double muscling in various breeds in South Africa, an MSc student, Reinhardt Steyn of the University of Pretoria, which has funding of the BGP (Beef Genomic Program) is currently studying the occurrence of double muscling genes in the South African cattle population, using genomic information. If there are breeders who would like to participate in the project and can provide tail hair samples of double muscled animals or possible carriers, please contact Reinhardt at 0764802505 or u12083284@tuks.co.za (Subject: Double Muscling). We will report on the progress of the project.

Left: There are 4 platinum Logix Elite Beef winners in the region. The overall winner is Lamus Bonsmaras.


Limpopo / Mpumalanga / Gauteng / Part of North West / Eastern Free State / Northern KZN: Andries Riekert

Tel: 082 465 0671
E-mail: andries@studbook.co.za

Andries Riekert is stationed in Pretoria. He studied at Technicon Pretoria and has 13 years of experience in Production Recording. He is an expert in beef cattle and he is interested in the differences between and within different breeds. There are about 524 beef herds in the region participating in Logix Beef. On average, about 120 herds do farm growth tests annually. About 3,500 young stud bulls undergo specialized post wean growth measurements to determine their genetic merit, of which about 500 are measured using RTU scans for carcass quality as well. There are also 159 sheep flocks (wool and mutton), as well as 24 pig herds and 2 dairy herds in Andries' region. Inspection of animals of smaller breeds such as Charbray, Beef Shorthorn and Huguenot SA is also done by him. Andries is available for assistance to breeders in his area where necessary.

Beef Information Day

The Logix Beef Forum North Committee held their annual club meeting at the SA Stud Book Office at the University of Pretoria on 6 November 2017. The Forum North held a Beef Cattle Information Day on March 20, 2018 at Syferfontein Bonsmaras (Nico Pieterse) in the Standerton area at which the top breeders received their Elite Production Certificates.

Left: The winner of the Elite Beef North is Beefmaster Alliance. Right: Nico Pieterse and his Bonsmaras

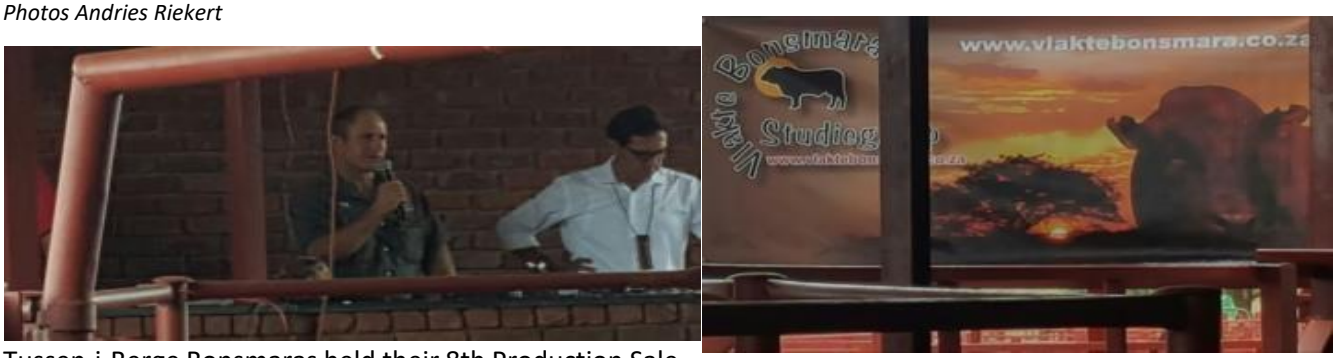
Bufland Private Bull testing centre

Photos: Andries Riekert

Early in 2018, Lukas Eksteen from Bufland Bonsmaras in Limpopo (Naboomspruit) opened a bull testing centre with 12 feeding stations which measures individual intake. The first bull growth test is currently underway and is progressing very well. From now on, feed intake tests will take place on a regular basis and is open to all breeds to participate

Sales

Photos Andries Riekert



Tussen-i-Berge Bonsmaras held their 8th Production Sale in Vivo in February, 2018. Nu-Alcade Bonsmara Group held its 24th Production Sale at Warmbaths on 15 February 2018. Vlakte Bonsmara Study Group held their 12th Production Sale at Roedtan on February 23, 2018. The three auctions were successful and presented quality animals to the industry.

Genetic Evaluations

ICAR (International Committee on Animal Recording) has certified SA Stud Book to do Genetic Evaluations for Beef Cattle, Dairy Cattle, Small Stock and Pigs, which means our analyses are of an international standard. SA Stud Book is the only facility in South Africa certified to do genetic evaluations.

CERTIFICATE OF QUALITY
Exp. 04/2019

LOGIX BEEF CATTLE / VLEISBEESTE

Beef Cattle

	Breeds	Cow-Calf EBVs	Growth Test EBVs	RTU EBVs	GEBVs	No of analyses/ year
1	Afrigus	x				4
2	Angus	x	x	x		12
3	Ankole	x				4
4	Beefmaster	x	x	x	x	12
5	Bonsmara	x	x	x	x	12
6	Boran	x	x	x		4
7	Braunvieh	x	x	x		4
8	Charolais	x	x			12
9	Dexter	x				4
10	Drakensberger	x	x	x		12
11	Gelbvieh	x	x			4
12	Hereford	x	x	x		4
13	Hugenoot	x	x			4
14	Nguni	x	x			4
15	Pinzgauer	x	x			4
16	Pinzyl	x				4
17	Red Poll	x	x			4
18	Romagnola	x	x			4
19	Santa Gertrudis	x	x			4
20	South Devon	x	x			4
21	Senepol	x	x			4
22	Shorthorn	x	x			4
23	Sussex	x	x	x		12
24	Tuli	x	x	x		12

Dr Helena Theron: SA Stud Book has recently re-evaluated all breeds in order to see if estimation of breeding values is still on par with what is happening within the breeds. **Some breeds will now, for the first time, receive Growth Test EBVs, while the estimation of RTU EBVs will also commence for more breeds.** Previously, only Bonsmara, Drakensberger and Angus animals received breeding values for RTU scanning. There are now 9 breeds with enough measurements to receive EBVs. GEBVs (Genomic EBVs) are currently included for Bonsmara and Beefmaster, but will also be extended to the other breeds currently involved in the BGP, as soon as viable reference populations have been established.

In the table the breeds and the breeding values which they will be receiving, are listed. Apart from South African Breed Societies, many of these analyses also include herds and breed societies in countries on the rest of Africa, South American countries and others.

Small Stock

Dr Bernice Mostert: The new Logix Genetic Evaluations for Small Stock breeds currently in development, have already been introduced for the Boer Goat, Dormer, Dorper, Ile de France, Kalahari-Red, Meatmasters, Merino Landsheep, Savannah, Van Rooy and White Dorper breeds and are run on a bi-weekly or monthly basis (according to every breed's requirement). The Merino and SA Mutton Merino breeds' developments are in the final stages of discussion and will be implemented shortly.

User-friendly Genetic Reports have also been developed for all small stock breeders that participate in the Logix Small Stock Scheme which include the following :

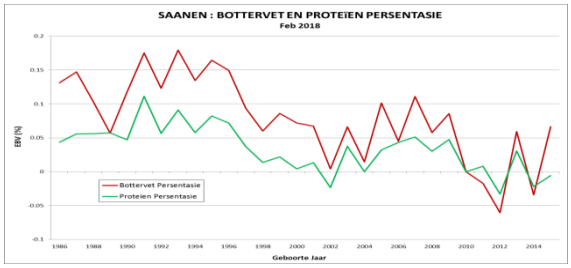
- ✓ Comparisons between flock and breed for:
  - Genetic levels and genetic status of the different traits and selection indices
  - Genetic changes over time
  - Rate of inbreeding
- ✓ Individual breeding values, selection indices and inbreeding coefficients for all rams and ewes of the flock, as well as for rams used as sires in the flock
- ✓ Assessment of rams and ewes which were used as sires and dams in the flock
- ✓ Selection Lists which allows for easy and informative selection decisions

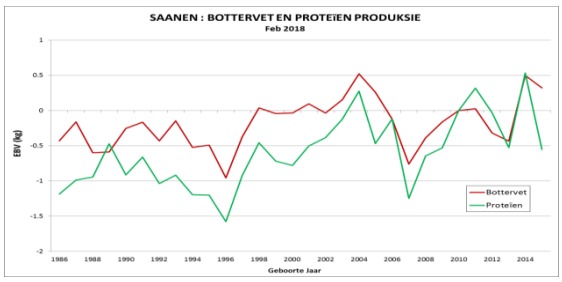
The Logix Small Stock Genetic Evaluation Schedule for 2018, for breeds already participating in Logix Routine Evaluations, are indicated in the following table:

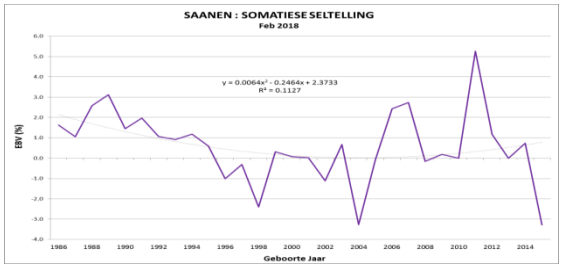
Dates for LOGIX Small Stock Genetic Evaluation: 2018												
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**
Ile de France	08	05	05	02	01	04	02	06	03	01	05	03
Merino Landsheep	08	05	05	02	01	04	02	06	03	01	05	03
Kalahari Reds	08	05	05	02	01	04	02	06	03	01	05	03
Savannah	08	05	05	02	01	04	02	06	03	01	05	03
Meatmaster	08, 22	05, 19	05, 19	02, 16	01, 16	04, 18	02, 16	06, 17	03, 17	01, 17	05, 19	03
Dorper	08, 22	05, 19	05, 19	02, 16	01, 16	04, 18	02, 16	06, 17	03, 17	01, 17	05, 19	03
White Dorper	08, 22	05, 19	05, 19	02, 16	01, 16	04, 18	02, 16	06, 17	03, 17	01, 17	05, 19	03
Boerbok	08,22	05, 19	05, 19	02, 16	01, 16	04, 18	02, 16	06, 17	03, 17	01, 17	05, 19	03
Van Rooy	08, 22	05, 19	05, 19	02, 16	01, 16	04, 18	02, 16	06, 17	03, 17	01, 17	05, 19	03
Dormer	08	05	05	02	01	04	02	06	03	01	05	03

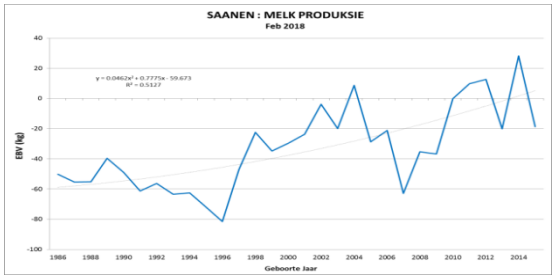
Dairy Goats

.**Dr Bernice Mostert**: A Genetic Evaluation System for prediction of breeding values for production traits (milk, butterfat and protein yields and butterfat and protein percentages) and somatic cell score are currently in development for the Saanen Milk Goat breed. These breeding values will be included in the Genetic Reports of breeders that participate in Logix Milk and a total merit index will be constructed, based on the breeding values of these production traits, somatic cell score (as indication of mastitis resistance), inter-lambing period (as indication of fertility), udder-, conformation and feet & leg indices, with inputs from the Society. These developments will enable breeders to select more efficiently for economical important traits and a significant increase in genetic progress in the breed can be expected. The preliminary results are quite promising. The following graphs indicate the genetic trends for the Saanen breed and are from the preliminary results









Genomics – DGP

Dr Bernice Mostert: The Dairy Genomics Programme is a South African Genomics Project submitted by roleplayers in the South African Dairy Industry to the Technology Innovation Agency, a funding agency of the Department of Science and Technology, for the establishment of Genomic Selection of dairy breeds in South Africa. This Programme commenced in 2016 with the aim to genotype a sufficient number of animals with high impact (animals with highly reliable breeding values) of the Ayrshire, Holstein and Jersey breeds to establish a Reference Population for the interpretation of the genetic code as expressed in the South African environment and populations.

In the following table the number of biological samples submitted to the Bio-Technology Platform of the ARC for genotyping and the number of genotypes already available from the Programme, are indicated per participating breed.

Breed	Biological Monsters Submitted	Genotypes Received
Ayrshire	217	101
Holstein	934	439
Jersey	931	523

2018 is the last year of this Program and a request is made to semen companies to support this Program by making semen straws of AI-sire with daughters in South Africa available for genotyping and thereby being included in the Reference Population for establishment of Genomic Selection. SA Stud Book wants to thank the Ayrshire, Holstein and Jersey Breed Societies and their breeders on behalf of the DGP for the enthusiasm and assistance in the collection of the biological samples of the nominated animals, with a special word of thanks to Genimex and Taurus Evolution for the important contributions that they are making in insuring that this Program is successful.

Genomics – BGP

Dr Japie van der Westhuizen: The Beef Genomics Program (BGP) is an ambitious program to enable beef cattle breeds to become part of the latest methods of including genomic information in the genetic merit determination of potential breeding animals. The parties involved are the Technology Innovation Agency (TIA), a state institution that finances innovative programs, the Agricultural Research Council's (ARC) Biotechnology Platform and Animal Production Institute, at least three universities (UP, UFS & US), LRF breeds and Stud Book breeds as well as the African Centre for Gene Technologies (ACTG). The total funding over a three-year period was in the order of R30 million. The program consisted mainly of a research co-op, which includes postgraduate student training, and plans for each participating breed to enable them to use the technology in genetic merit prediction. The participating Stud Book Breeders' plans focused on ways to obtain the appropriate genomic profiles of appropriate animals to predict breeding values which includes genomic information. The main focus is on female reproduction, milk (cow efficiency), growth efficiency (including feed conversion), carcass characteristics (as determined by RTU) and longevity of breeding animals. At the time of the start of the BGP, the commonly used method was the so-called 2-step (two-step) method, which required a fair number of animals whose genomic profiles should be known to serve as "reference populations" . However, the rapidly changing science world has led to the development of newer methods to increase the accuracy of predictions for the genetic merit of breeding animals through the inclusion of genomic information without the expensive investment in a large reference population. Stud Book has taken advantage of international negotiations to obtain the latest software for immediate etimation of DGVs. Currently the service is available to Bonsmara and Beefmaster breeders. It should soon include Drakensbergers, followed by Hereford, Charolais, Nguni, Boran and Tuli. This is all the Stud Book members who participated in the first round of the BGP. There is currently an application submitted at TIA for a second round funding. This will enable more breeds to become part of the technology. Plans have also been submitted that could make it possible to include meat quality features in the program.

The main advantage, as mentioned, is that the inclusion of genomic information leads to a rise in the predictive accuracy of breeding values. This is especially important for sex-limited characteristics, such as female reproduction and milk. The risk associated with the decision to select a two-to-three-year-old bull as a sire is therefore limited.

Participation in the BGP requires a lot of time and resources from Stud Book, but it is done in the interests of the Association's members and breeders. Eventually, every beef cattle producer benefits.

Logix Elite-Milk Competition

Suretha Francis: SA Stud Book offers a comprehensive service to dairy farmers through its Logix Milk Management System. The service includes normal milk recording services, as well as specialist advice on nutrition, health and management of participating herds. Genetic evaluations for selection and breeding are included in the services. This service ensures the availability of data that can be used on a comparable basis to increase the profitability of dairy farmers.

Of course, recognition should be given to producers who manage their herds in this way and participate in the program. Indeed, these producers allow SA Stud Book to place milk herds on a comparable basis in order of economically important measurements and to maintain a complete record of milk production.

The purpose of the Logix Elite Dairy Farm Awards is to acknowledge all the participants. The competition is based on milk recording figures and also the application of appropriate breeding principles. It is a show case to introduce breeders and herds to the industry. The opportunity is also created for industry to make contact with the participants.

How it works

Herds participating in SA Stud Book's Logix Milk will automatically qualify for participation. Dairy farmers are ranked on a national level based on proven performance over a 12-month period (May 1 to April 30). Prize-giving events are held in all regions. These include the following regions: North (North West, Gauteng, Limpopo, Mpumalanga), Free State, KwaZulu-Natal, Eastern Cape and Western Cape. The 2017 awards were attended by top dairy farmers and industry leaders and was a huge success. The events took place as follows: The Northern Region had an information day on the EDE Farming farm. Free State Elite was held at Reynecke Park in Bloemfontein. KwaZulu Natal held an information day on Kevin Lang's farm while the Western Cape was held at the Livestock Expo at Sandringham. Eastern Cape's Elite event was hosted at Andrew Masterson's farm.

TRAIT	MAX MARK	PROPOR-TIONAL	RELATIVE
Production *	45	26.5	MAX = 81/100
Reproduction *	45	26.5	
Lactation length	10	5.9	
Somatic Cell Count	15	8.8	
% Births recorded	15	8.8	
% in Lactation: Dry	10	5.9	
Herd Size	15	8.8	
Number of tests per year	15	8.8	
Total Logix Milk & Phenotype	170	100	
Herd GENETIC level *	MAX = 75/100		

*Measured in standard deviation units

Top 7 herds-ELITE Gold, National Finalists for Platinum
Next 11 herds - ELITE Gold
Next 31 herds - ELITE Silver
Next 28 herds - ELITE Bronze
The National winner of 2017 will be announced at the National Elite Event in Bloemfontein on 30th of April 2018. The top 7 herds represent the Dairy Elite herds during the event. A national winner as well as the Best Genetic Herd is awarded during the event.

Logix: Introduction

Herman Labuschagne: Logix is the acronymn for Livestock Operational and Genetic Information Exchange. It is a system allowing users access to data and information of animals recorded at Stud Book. The sucess of livestock production and animal breeding increases when breeders use appropriate information to make the right decisions for their production processes. Logix is a modern system allowing breeders and producers access to the latest breeding and production information of their herds, as recorded on the system. The system is on-line. When a birth is recorded on Logix, it is immediately incorporated into the calculations, drafting and generation of new reports. It is a bilingual system and users therefore has a choice of Afrikaans or English. There is no charge when using Logix, except for the drafting of sales' catalogues. Logix provides for all species, namely beef cattle, dairy cattle, all small stock production and systems, horses, game and even dogs.

Future Newsletters will also focus on explaining other aspects of Logix and will therefore serve as Manual that users can compile for future reference.

Access

Logix has an extensive data security system ensuring that every user only has access to his or her own herd by an individual username and password. Breeders' Societies can decide, usually at a Annual General Meeting, to open acess to the breed's information to different users and at different levels. These levels vary from strict control where a user can only see information and reports of his or her own herd's data to a level where the data is open for public access. Users not registered on the system can access this data by using the system as guest user. The username for this is Guest and the password, logix. New users can log in by visiting www.logix.org.za and clicking "Register as new user". Simply complete the application form and click "Submit". After validation, a username and password will be sent to the user by email.

Functionalities

Shortcuts

The first button on the Logix function list is the Shortcuts heading. Users who do not use Logix regularly might forget how to look up a particular feature and this function is therefore very handy. The Shortcuts heading helps the user to easily and quickly get to the most popular features. The other handy feature is the Search Function that allows the user to quickly find a specific option. For example, if the word "Inbreeding" is typed, all the functions that contain the word will be listed and the right choice can be selected.

Reports

Logix not only serves as a gateway to the latest data on the system, but also serves as the source of relevant reports allowing breeders immediate information to identify genetically superior animals. This ensure genetic progress. The reports are devided into the following sections to navigate the user in the right direction.

Administrative-, pedigree, reproduction, breeding value reports, certificates and inventories. Under each of these headings, several reports, from daily reports to the most popular genetic analysis of the herd, can be found. These Genetic Reports are upgraded weekly to quarterly, based on the frequency of genetic evaluations and carry the latest information. It is therefore relevant and can be used for selection. After each BLUP analysis, the breeder also receives an email with a link allowing for downloading the report to his or her computer

Data withdrawal

Data can be extracted from Logix for farm computer software and some of the software even has a built-in direct feature that allows the Logix to automatically sincronise with and update data on the breeder's computer. Data can also be extracted in a format that can be opened in Excel (.csv file), so that the breeder has the option to extend calculations. Farmers with farm software must realize that Logix could also be considered as a backup database. It has repeatedly happened that breeders whose computers have broken down or was stolen, could retrieve data from Logix to re-establish their data on a replacement computer.

Calculation of Inbreeding

Logix has a very useful function for calculating inbreeding when planning matings. The breeder chooses animals that he or she considers for such matings. The inbreeding coefficients of the resulting offspring are then calculated. More than one bull can be designated for a specific group of cows and a report is generated for the best choice of bull for the particular mating. This feature is especially useful when a breed's gene pool is relatively small. (See next article for more detail).

SA Dairy- & SABeefbulls.com

The main Logix screen can be navigated to other functions, such as SADairyBulls and SABeefBulls, as well as the Horse Show Program, Horse Champ. Breeders can, without giving their own username and password, give other users access to their own herd's data and features on Logix. For example, a consultant, veterinarian, agency or farm manager can use his own username and password to acess his or her clients' data.

Data submission

Not only can data and reports be extracted or downloaded from Logix, but also submitted from farm to system. The most widely used feature is the recording of births, forming the basis to enter the particulars of an animal onto the system. Other transactions such as electronic cancellations, transfers and even information related to the service of females can easily be recorded on Logix. An electronic inventory makes it easy and very effective when updating the herd inventory and animal particulars. Logix allow breeders to electronically transfer animals sold to other members of the Breeders' Society and even non-members. Some breeds already prefer certificates to be in an electronic format or te be printed by the user if so desired. This makes the system very easy to use and efficient.

Communication and Catalogues

Under the heading "Communication" news and useful articles are stored. The catalogues are very popular and any sale where the catalogue has been finalized, will appear on Logix. These catalogues are grouped by breed. Anyone interested, even those not members of SA Stud Book or Logix users, can access the catalogue and download them. This makes the homework before a sale much easier.

In the next newsletter the lookup of information will be discussed in detail.

Logix Expected Inbreeding Calculation

Dr Bernice Mostert: Inbreeding, the mating of related animals, can lead to undesirable (recessive) genes in a population to combine in progeny due to sires and dams being related and receiving the same gene from common ancestors. In highly inbred populations the probably of animals being born with genetic disorders is therefore much higher compared to populations that are less inbred. Furthermore, inbreeding causes a gradual decrease in productivity, fertility and vitality due to the loss of advantageous interactions amongst different alleles of the same gene – this is known as inbreeding depression.

Inbreeding that occurs over many generations also leads to a gradual decrease in the number of ancestors being represented in the current active population, resulting in the genetic diversity (variation) in the population being depleted. Some valuable genes can be permanently lost, while undesirable genes may be fixated. This can restrict breeders' abilities to achieve genetic progress in production of their herds or flocks and may even force breeders to change their breeding objectives to put much more emphasis on fertility and vitality to ensure the survivability of the herd/flock.

The Logix Inbreeding function allocates males to females ranked according to level of inbreeding of the expected progeny.

MOEDER REKORD	MOER ID	MOER NAAM	KEUSE 1	KEUSE 2	KEUSE 3
4789234	ABCD	CHARMING JOHANNA	DALTON	EASEL	JAMBOOL
	30634		80308869	69276103	75639187
			6.60%	7.73%	7.94%
4832345	ABCD	RENELLA CHOCS	JAMBOOL	RASP	DALTON
	40662		75639187	73646705	80308869
			6.09%	6.96%	8.34%
4837123	ABCD	PURE GEMPY	JAMBOOL	RASP	DALTON
	40663		75639187	73646705	80308869
			6.39%	7.35%	8.89%

A function has been developed on Logix to mate selected male and female animals in order to determine the resulting inbreeding that will occur. Male animals are allocated to the females in such a way that minimum inbreeding will occur in the next generation. Some interesting reports are created:

- **Expected Inbreeding List:** The expected inbreeding of the progeny is shown for all selected females with all selected males, sorted per dam.
- **Expected Inbreeding Table:** The expected inbreeding of the progeny for every sire x dam combination is listed, sorted per sire.
- **Best Matings:** In this report the mating combinations are shown, ranked from the mating that causes the least inbreeding to the mating that will cause most inbreeding, for every female animal.
- **Sire Summary:** A summary is available with regards to the number and frequency of times a sire is allocated for a mating, ranked from the sire being allocated most (for best matings causing least inbreeding) to least.

The Inbreeding Function of Logix will play an important role in the management and restriction of inbreeding for breeders that participate in SA Stud Book's services.

Sign in on Logix and go to Shortcuts ->Expected Inbreeding Calculation

Difficult Calving

Dr Helena Theron: During calving season, most cows calve unattended and unassisted and should be allowed to calve naturally. In the normal delivery of a calf there are three stages of labour: initiation and preparation for the birth which lasts from 4-24 hours, the passage of the calf through the birth canal, which lasts between 30 minutes and 3 hours and expulsion of the placenta, which can last from 12- 24 hours. If the labour is prolonged, it is an indication of difficulty of birth, also known as dystocia. Despite the best efforts to avoid dystocia, a small proportion of cows and especially heifers may require assistance. Early intervention minimizes the effects of dystocia. As a rule of thumb, cows should be assisted if they have not delivered the calf within 2 hours from the time the water bag appears, or if more than 30 minutes elapse without progress.

A high level of difficult calving in a herd has a financial implication, as dystocia causes increased cow and calf losses. Cows that had a difficult calving may have delayed return to heat, as well as lower conception rates. Some studies have suggested that cows that previously experienced dystocia are more likely to do so again. Although there are numerous interrelated and sometimes unknown factors that influence calving difficulty, the incidence of dystocia in a herd can be lowered by managing factors that are known to increase the incidence of difficult calving.

Factors Affecting Dystocia

1. **Calf's birth weight:** According to several studies, birth weight of the calf was the trait most highly correlated with calving difficulty. Difficult calving is usually caused by a disproportion of the calf size relative to the dam size.

2**. Age of dam:** First-calf, two-year-old heifers are the most at risk, mainly because of their small body size and underdeveloped pelvis area. It has been shown that difficulty in two-year-olds is three to four times as high as in three-year-olds, and three-year-olds have about twice as much difficulty as four-year-olds. By the time a cow reaches 4 - 5 years of age, dystocia problems are usually minimal.

3. **Nutrition and condition of the dam:** Cows should have an optimal body condition score of 3 to 4 to ensure an easy calving. Over conditioned cows have a higher risk of dystocia and metabolic disorders in early lactation, due to more fat lining the birth canal; where as too thin heifers may be too weak to calve, which is associated with weak labour, difficult calving, poor growing calves, difficulty to get into calf again and increased mortality. If is recommended that heifers reach at least 85% of their expected mature weight at first calving. Little is known about the effects of nutrition in early and mid-gestation, but care should also be taken not to overfeed cows in the last trimester, as this could increase calf birth weight.

4. **Pelvic area:** One of the major causes of dystocia is the disproportion between the size of the calf and the pelvic opening of the dam, especially in first-calf heifers. However, selection for increased pelvic area without some constraint on body size could possibly result in a parallel increase in birth weight and mature size and little change in calving ease. Pelvic size should be viewed as a threshold trait and heifers with the narrowest pelvic width, (rather than pelvic area), should be culled.

5. **Cow size:** Smaller heifers tend to have a higher incidence of dystocia than larger heifers but the correlations are low (-.01 to .20). It is the ratio of calf birth weight to dam weight which is the most important factor.

6**. Calf shape** probably plays a role in dystocia but it is extremely difficult to quantify.

7. **Breed: Breed of dam:** Zebu and Sanga cows tend to have calves with lower birth weights and less dystocia when compared with European breed cows. Researchers reported that calf growth during the last 20 percent of gestation is

dramatically lower in Brahman than in European breed cows. This difference is probably due to differences in uterine blood flow and function of tissues. **Breed of sire** is important in cross-breeding, especially if it causes an increase in birth weight.

8. **Uterine environment:** Research has also shown that dams differ greatly in the growth rate of the calves they are carrying. This can be measured and selected for in the Birth Maternal breeding value.

9. Abnormal presentations of the calf accounted for 22% of dystocia and 4% of all births in one study. **Twins** also tend to have difficulty, mostly because of abnormal presentations.

10. **Factors with a small effect: Sex of calf:** Bull calves are more likely to cause difficult calving, because they are generally larger and heavier than heifer calves. **Gestation length** is not highly correlated with dystocia, but plays a role as longer gestation length causes a higher birth weight, which in turn increases the risk for calving difficulty. **Environment** - Geographic region, season of birth, and temperature can all affect calf birth weight, which in turn affects the possibility of dystocia. Geographic region differences can probably be attributed to differences in nutrition and temperature. Calves born in autumn are generally lighter in weight and experience less dystocia than those born in the spring. High environmental temperatures will reduce birth weights, while low environmental temperatures are related to heavier birth weights and increased calving difficulty. All of these effects, however, do not play a large role.

11. **Other unknown factors**: Research shows that less than 50% of the total variation in dystocia can be explained by factors that can be defined or measured. It is therefore sometimes difficult to determine the reason for dystocia and difficult if not impossible to eliminate dystocia completely.

What the breeder can do:

Although difficult calving cannot be eliminated completely, breeders could manage environmental effects like birth weight of calf, age of the dam and condition of the cow. A combination of calving heifers at three years or only selecting larger heifers to calve at two years, and using bulls that sire calves with small birth weights may reduce dystocia significantly. Breeders should select bulls with low birth-weight EBVs for use on heifers while maintaining at least moderate weaning and growth EBVs. EBVs for Birth Maternal indicate the ease with which a bull's daughters will calve.

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Courses and Gatherings

Elite Bull Growth Test Class

elite 2018

Vleissentraal & SA Stamboek nooi u hartlik uit na die

ELITE BULGROEITOETSKLAS

Vleissentraal & SA Stud Book cordially invites you to the

ELITE BULL GROWTH TEST CLASS

30 April 2018
Hoofbeesring, Bloemskouterrein, Bloemfontein
Main Cattle Ring, Bloem Show Grounds, Bloemfontein

14h30	**Aankoms van gaste**
14h50	**Aantree van Elite Bulgroeitoetsklas-Bulle**
15h00	**Verwelkoming:** Len Davies – (President: Bloemskou)
15h05	**Oorhandiging van skildery:** **Wenner 2017** Anton Vos (Besturende Direkteur: Vleissentraal)
15h10	**Bekendstelling Beoordelaars 2018** Dr Japie van der Westhuizen (Waarnemende Hoofbestuurder: SA Stamboek)
15h15	**Bekendstelling van bulle** Freddie Wasserfall (President: SA Stamboek) **Beoordeling & Opmerkings** Willie de Jager, Carel Nel, Llewellyn Angus **Aanwysing van top 5 plasings** **Aanwysing van finaliste vir finale plasing** **Aankondiging van Wenner, Oorhandiging van Wisseltrofee & Wenroset** Anton Vos (Vleissentraal) & Dr Japie vd Westhuizen (SA Stamboek) **Oorhandiging van Kontantprys: Touleier van Wenbul** Anton Vos (Vleissentraal) **Fotosessie:** Wenbul & Eienaar Alle buleienaars

14h30	**Arrival of guests**
14h50	**Line-up Elite Bull Growth Test Class Bulls**
15h00	**Welcoming:** Len Davies – (President: Bloem Show)
15h05	**Presentation of painting:** **Winner 2017** Anton Vos (Managing Director: Vleissentraal)
15h10	**Introduction Judges 2018** Dr Japie van der Westhuizen (Acting General Manager: SA Stud Book)
15h15	**Introduction of bulls** Freddie Wasserfall (President: SA Stud Book) **Judging & Remarks** Willie de Jager, Carel Nel, Llewellyn Angus **Announcement of top 5 placements** **Accouncement of finalists for final placement** **Announcement of Winner, Presentation of Floating Trophy & Winning Rosette** Anton Vos (Vleissentraal) & Dr Japie vd Westhuizen (SA Stud Book) **Presentation of Cash Prize: Handler of Winning Bull** Anton Vos (Vleissentraal) **Photo Session:** Winning Bull & Owner All bull owners

Vleissentraal · SA Stamboek Stud Book · Bloem Skou · Show

Vir inligting / For information:
SA Stamboek / Stud Book: Sherri van Zyl / 051 410 0995 / sherri@studbook.co.za
Vleissentraal: Marinda van der Merwe 072 272 6555 / marinda@vleissentraal.co.za

Vleisbeestelingskursus

22 – 24 Mei 2018 in Bloemfontein

Ons nooi alle belangstellendes vriendelik uit na ons Vleisbeestelingskursus. Die kursus is informeel en prakties georiënteer en dek alle aspekte van moderne vleisbeesteling. **Aanbieding is in Afrikaans. Handleidings is in Afrikaans of Engels beskikbaar.**

Aanbieders:
Dr Japie van der Westhuizen, Helena Theron en Siebert Vermeulen van SA Stamboek.

Waar:
Raadsaal,
SA Stamboek gebou,
Henrystraat 118,
Bloemfontein
(GPS: S 29˚ 06.74 E 26˚ 12.45).

Koste:
R1950 (BTW uit) of R2223 (BTW in)
Ingesluit: 'n Handleiding (Afrikaans of Engels), Middag-etes en 'n Sertifikaat.

Die aantal persone word beperk tot 25, voorkeur sal dus gegee word aan persone wat reeds betaal het. Indien te min persone registreer, kan kursus gekanselleer word. Geen terugbetalings na 18 Mei 2018.

Vir meer inligting en bespreking:
Kontak asseblief vir Elsa v d Bergh
Tel: 051 410 0900
Epos: elsa@studbook.co.za

Bankbesonderhede:
Naam van Rekening: SA Stamboek & Diereverbeteringsvereniging
Bank: Standard Bank van SA
Rek nommer: 041191358
Takkode: 055534
Tak : Brandwag
Verwysing: BLUP1 en Lidnr of Naam.

Stuur asseblief bewys van betaling aan Elsa.

Program

Dag 1:

8-9vm: Registrasie

9-1nm: **Genetiese beginsels:**
Gene, DNA, oorerwing van eienskappe en genomiese seleksie

2-4nm: **Beginsels van BLUP:**
Kontemporêre groepe, stambome, teelwaardes en seleksie-waardes

Dag 2:

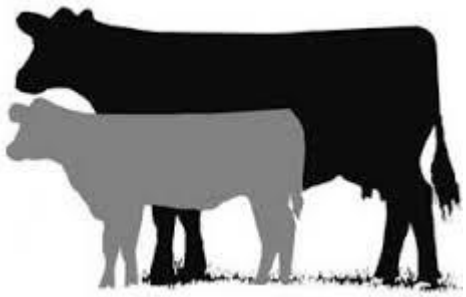
9-1nm: **Seleksie doelwitte:**
Wat is belangrik en hoekom?

2-4nm: **Inligting:** Logix, Genetiese verslae, veilingskatalogusse, SABeefbulls.com, Paringsprogramme.

4nm: Sertifikaat-oorhandiging

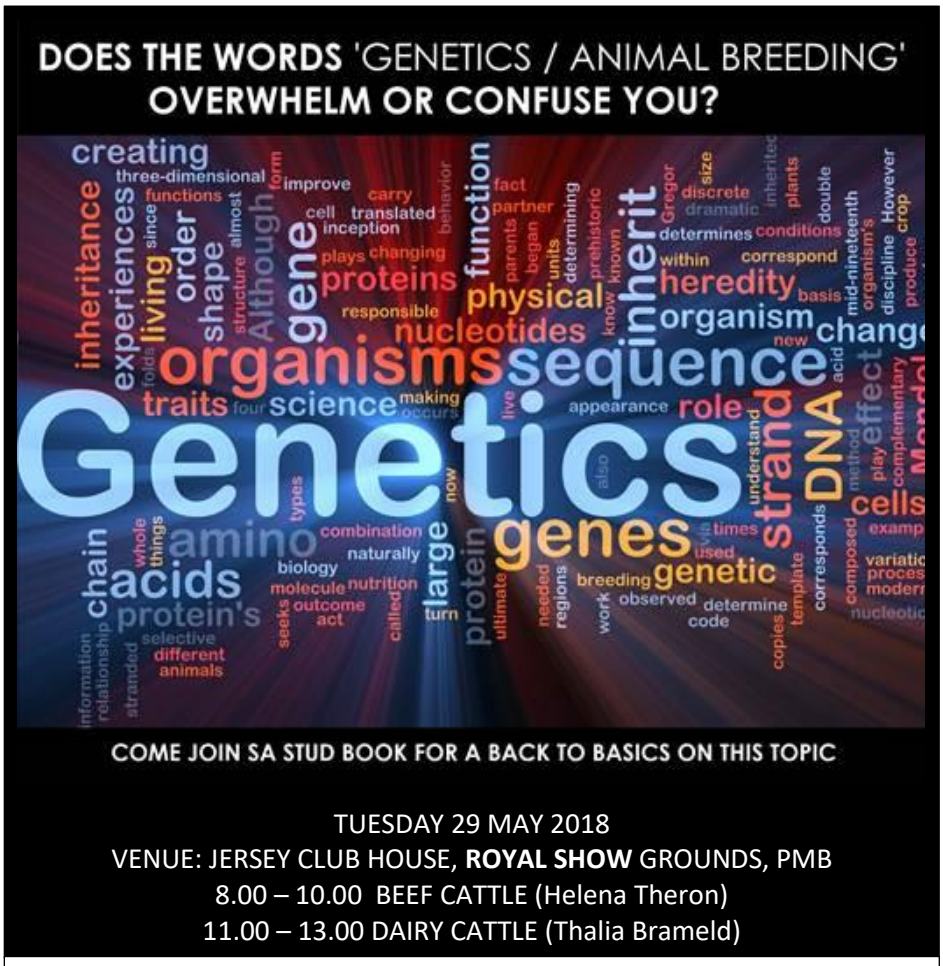
Dag 3:

Praktiese oefening by 'n kudde: Die gebruik van teelwaardes by die paring van diere.



LOGIX
BEEF CATTLE / VLEISBEESTE

Genetic Day, Royal Show



LOGIX

In depth theory discussion
Registration: R100
RSVP before Friday 25 May 2018
Thalia Brameld 071 493 1111 thalia@studbook.co.za

EDE Dairy Day :

Alfa 2018

Stud Book will participate at Alfa Expo 2018, which will be held at the Afridome in Parys on 18 - 20 September 2018.

The annual **SA Stud Book Voermol Breeding Symposium** takes place on the 18th of September and the ELITE award ceremony for the Free State and Northern Provinces Beef Cattle Farmers follows after lunch. The very first ELITE award ceremony for Small Stock breeders is planned and will take place as a breakfast event on 19 September. These ELITE awards will be held for the first time at Alfa Expo.

Without revealing too much, it can be said that it is possible that three foreign speakers will take part in the Symposium and other events during Alfa 2018.

Plans are also underway to duplicate the Breeders Symposium in the Western Cape on Friday, 20 September 2018. It is also planned for the same foreign speakers to take part in this event.

Two exciting new opportunities are also taking place at Alfa Expo 2018, acknowledging top heifers and top young rams. Stud Book, in collaboration with the organizers of Alfa Expo 2018, identifies the genetically superior young rams in each small stock breed (based on the Logix Merit Index) from which the relevant breeders' society must select three rams to display at Alfa Expo 2018. The rams will also be scored on functional appearance. Their genetic merit and functional points are combined to designate the winner by breed. The same route will be followed for the identification of the most sought after heifer, by breed. Here, the Cow Value (where available) is used in the initial selection of heifers. In both cases, animals are not compared across breeds.

Internet links

Dr Japie van der Westhuizen: Visit to ICAR and Interbull symposium: (Afrikaans)
https://agriorbit.com/nuwe-ontwikkelings-in-diere-aantekening/

Dr Bobbie v/d Westhuizen : Mating program on SABeefBulls.com (Afrikaans)
https://agriorbit.com/n-platform-vir-optimale-seleksie/

Dr Japie van der Westhuizen ICAR en Interbull (Afrikaans)
https://agriorbit.com/boere-en-die-kredietwet/

Dr Bobbie van der Westhuizen : (Afrikaans)
https://agriorbit.com/tv-genomiese-seleksie-vir-beter-vee/

Bobbie oor Stamboek se dienste aan die Kleinveebedryf (Afrikaans).
https://agriorbit.com/radio-sa-stamboek-se-dienste/

Web sites

www.SABeefBulls.com
www.SADairyBulls.com
www.Logix.org.za
www.SAStudbook.co.za

Facebook

https://www.facebook.com/SAStudbook/

Stud Book's Twitter handle

@SAstudbook
https://twitter.com/SAstudbook