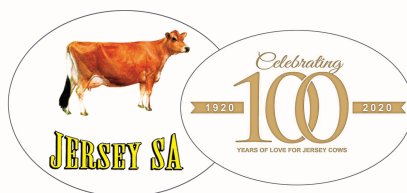




JERSEY GENOMIC BREEDING VALUE REPORT

September 2026



MRS C.H. SHEARER

Kuddenr : 443013



CERTIFICATE
OF QUALITY

Valid up to
October 2029

Genomic EBVs (GEBVs)



SA Stud Book strives to stay abreast of the latest scientific and technological developments. A Genomic Evaluation has therefore been developed for the SA Jersey breed, where genomic data are now also included as a source of information in the genetic evaluation. Animals that were genotyped through SA Stud Book's Genomic Selection Service, are indicated by the accompanying logo in the Report. Currently mostly older animals have been genotyped, which is essential to establish the relationship between SNP markers and breeding values. This means that if a young animal has been genotyped, more information is available for estimation of its breeding values, therefore the breeding values can be estimated more reliably, especially those of complex traits like fertility and longevity. The SA Jersey breed is one of the first dairy cattle breeds in Africa to receive GEBVs, based on measurements in the SA environment. This ensures that the expression of genes in the SA environment is captured and that the GEBVs are established on the genetic parameters of the SA population. This has been made possible mainly through funding of the *Dairy Genomics Program*.



Another benefit of genomic analyses is the accurate verification of parentages, based on more than 50 000 SNP markers. If both the animal and parent have genomic tests, parentage as recorded on Logix, can be verified. The top block refers to the sire and the bottom block to the dam of the animal. This is indicated as follows in the Report:



Parent does not have a genomic test. Parentage is not verified.



Both animal and parent have genomic tests, and the parentage is verified.



The genomic test indicates that there is a conflict in the parentage, *i.e.* the parentage is not correct.

Possible reasons:

1. The parentage was incorrectly recorded on Logix. Genomic information can be applied to indicate the correct parent, if that parent had also been genotyped. If the breeder of the animal can confirm that the suggested parent was also on the farm/ semen of bull was also used at the time of mating, the breeder should correct the parentage *via* the Breed Society on Logix.
2. The wrong biological sample was submitted for the genomic test. (Please ensure that biological samples are collected and labelled correctly, as the genomic test is very precise). In this case, the test should be repeated.

In the Genomic Evaluation relationships amongst the animals are adjusted according to the genomic information. It is therefore the breeder's responsibility to correct conflicting pedigree

information on Logix. The effect of correction of parentages on the estimation of breeding values, range from mild to drastic. If the correct and conflicting parents are, for example, closely related, the effect could be minimal. Similarly the effect will be minimal when the animal already has EBVs of high accuracy, *i.e.* has many measured progeny that contributed to the estimation of its breeding values, as is the case with most of the animals tested up to date. However, if the correct and conflicting parents differ genetically, or the animal is still young (its breeding values are mostly determined by its parent average), the effect could be much larger. It is in the interest of the breeder, the breed and the genomic programme to have correct recorded parentages as far as possible. For any questions – and if you would like to know if the genomic test indicated another parent – please contact Dr Bernice Mostert at bernice@studbook.co.za.

MACE Breeding Values

Young foreign AI-bulls' MACE (international) breeding values are still blended with their SA EBVs until the reliability of the bulls' EBVs, based on their SA daughters, reach 80%. Thereafter their EBVs are based solely on their SA daughters' information (measurements and genotypes). EBVs of young SA bulls that do not have daughter information, as well as those of heifers, are also based on their AI-sires' MACE EBVs.

Selection Indices

To simplify selection, different (G)EBVs are combined in **selection indices**, *i.e.* the SAINET (total merit index), FMI (Fluid Merit Index) and CYI (Cheese Yield Index). In these indices the (G)EBVs are combined in optimal proportions, according to the specific market that is being served. Proportional contributions to the indices are indicated in the table.

	SAINET	FMI	CMI
Milk	7	9	-18
Butterfat	14	9	18
Protein	14	27	27
Udder Health	20	15	10
Fertility	15	15	15
Herd Life	5	12.5	10
Udder	12.5	6.25	10
Body	8.75	4.375	7
F&L	3.25	1.875	3

Use www.sadairybulls.com, SA Stud Book's search engine, to view genetic profiles of specific bulls or groups of bulls. All (G)EBVs are expressed on the SA base, which is directly comparable to the (G)EBVs of your herd.

General Selection Guidelines

Production

Health

Fertility

Herd Life

Indices

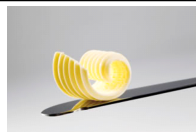
Traits for which breeding values (EBVs) are estimated

Milk (kg)



Milk Production

Butterfat (kg)



Bfat Production

Protein (kg)



Prot Production

Bfat & Prot %



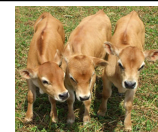
Solid percentages

Somatic Cell Score



Infection Resistance

Fertility



Calving Interval

Longevity



Survival to 4th calving

SAINET



Combination of EBVs

	Milk Production	Bfat Production	Prot Production	Percentages	Somatic Cells	Calving Interval	Func. Herd Life	SAINET
Unit	kg	kg	kg	%	Score	Days	Std Deviations	Std Deviations
High EBV	Higher milk production	Higher bfat production	Higher prot production	More solids	More susceptible	Less fertile	Longer herd life	More economic
Low EBV	Lower milk production	Lower bfat production	Lower prot production	Less solids	Less susceptible	More fertile	Shorter herd life	Less economic
Optimum EBV	Higher	Higher	Higher	Higher	Lower	Lower	Higher	Higher

Linear Traits

Udder	FUA Fore Udder Attachment Vooruier aanhegting	RUH Rear Udder Height Agterbene hoogte	RUW Rear Udder Width Agteruier breedte	UC Udder Cleft Uierspleet	UD Udder Depth Uierdiepte	FTP Front Teat Placement Voorspeenplasing	RTP Rear Teat Placement Agterspeenplasing	TL Teat Length Speenlengte
High EBV	Strong	High	Broad	Deep	Shallow	Inside	Inside	Long
Low EBV	Loose	Low	Narrow	None	Deep	Wide	Wide	Short
Optimum EBV	High	High	High	Intermediate High	Intermediate	Intermediate	Intermediate	Intermediate

Body	WH Wither height Skofhoogte	CW Chest width Borsbreedte	BD Body depth Liggaamskapasiteit	DS Dairy strength Suivelsterkte	RA Rump angle Kruishelling	TW Thurl width Draaibeenwydte
High EBV	High	Broad	Deep	Strong	Low	Wide
Low EBV	Low	Narrow	Shallow	Weak	High	Narrow
Optimum EBV	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate

Feet and Legs	RLS Rear Legs Side View Agterbene Sykant	FA Foot angle Hoefhelling	RLR Rear Legs Rear View Agterbene Agter	BS Bone Strength Beensterkte
High EBV	Sickled	Deep	Square	Strong
Low EBV	Straight	Shallow	Cow hocked	Weak
Optimum EBV	Intermediate	Intermediate	Intermediate	High

General Selection Guidelines

Milk, Butterfat and Protein Production

EBVs for these traits enable breeders to increase the milk, butterfat and protein yields of their herds by identifying high potential cows and heifers to stay in the herd, while low potential cows and heifers can be sold/culled. Selection on production traits alone, however, results in a decline in solid percentages, fertility and longevity, while resistance to mastitis will also deteriorate.

Butterfat and Protein Percentages

EBVs for the percentage traits indicate the amount of butterfat or protein relative to that of milk. Never select on percentage EBVs alone, as high percentage EBVs might also be due to low milk volumes. The percentage of solids in the herd can be increased by selecting for higher butterfat and protein EVBs, while keeping the genetic level of milk production constant.

Calving Interval

These EBVs indicate how much longer (positive EBVs) or shorter (negative EBVs) an animal's calving interval is in comparison to the average of the base cows (cows born in 2005). A penalization is also applied in the genetic evaluation for cows with prolonged lactations without subsequent calving dates, therefore cows that struggles to become pregnant. Smaller EBVs are desirable and indicates more fertile animals.

Somatic Cell Score

Low EBVs for Somatic Cell Score are an indication of a cow's genetic ability to resist infections, eg. mastitis. These breeding values are expressed as a score on the logarithmic scale. Smaller EBVs are therefore desirable.

Functional Herd Life

EBVs for Functional Herd Life are expressed as relative indices with average the average of the base cows set to 100 and a standard deviation of 12. Animals with EBVs of 112 are therefore 1 standard deviation unit above the average, while EBVs of 76 are 2 standard deviation units below the average. These EBVs are based on the survival of cows up to the 4th calving.

Linear Type Traits

EBVs are mostly intermediate, meaning that both extremes are undesirable. They are expressed as relative indices, with 100 as average of the base cows and 12 as standard deviation. Selection for these traits ensures functional animals that will stay in the herd and can therefore be seen as indirectly selection for longevity.

Efficiency Index (EFI)

Genetic efficiency is determined by expressing the Body Weight Composite (BWC) in relation to the solid yield of the cow:

$$EFI = (0.41 * \text{Prot EBV}) + (0.335 * \text{BFat EBV}) + (0.03 * \text{Milk Density}) - (0.225 * \text{BWC})$$

waar Milk Density = $-(\text{Milk EBV} - ((\text{BFat EBV} + \text{Prot EBV}) / 0.032))$ and

$$\text{BWC} = (0.23 * \text{WH}) + (0.15 * \text{CW}) + (0.19 * \text{BD}) + (0.10 * \text{TW}) - (0.33 * \text{DS})$$

Abbreviations

Prod	Production
UHealth	Udder Health
FHL	Functional Herd Life
ICP	Intercalving Period
BWC	Body Weight Composite
EFI	Efficiency Index
FMI	Fluid Milk Index
CYI	Cheese Yield Index
SAINET	Totale Merit Index

Inclusion of Data

Data has to conform to the following specifications to be included :

Age restrictions

Lac1 : 15 – 36mths
Lac2: 26 – 53 mths
Lac3: 38 – 67mths

Production restrictions

Milk : 2 -70kg
BF% : 2 – 12%
Prot% : 2 – 6%

Test-day Records

1st test within 70 days after calving
No interval longer than 100 days
Only 1 interval between 75 and 100 days

At least one parent should be known

The data used in this evaluation has been obtained from LOGIX, as supplied by breeders. Everything possible had been done to present the information correctly. SA Stud Book does not take any responsibility for the use and interpretation of the information from this publication.

SINGLE-GENE TRAITS

- Genes mutate or change. The most common form of a gene, is called the original gene or 'wild type'. Some genes have many different variants, but an animal can only have 2 of the variants, as one copy is received from the sire and the other from the dam. These genes can be the same variant (homozygous), or different variants (heterozygous).
- If the animal is heterozygous, one gene may dominate (animals with a polled gene and a horned gene will be polled because polled is dominant).
- Traits are rarely 100% influenced by a single gene; there are usually interactions with other genes that may (slightly) alter the trait.

Explanation of information on the report:

Breed Fraction

Indication of the animal's breed purity with regards to 12 bovine breeds that are genotyped in South Africa.

% Homozygosity

Percentage markers (SNPs) that are similar as received from the parents and therefore an indication of genetic diversity.

DGAT1

A gene that increase butterfat production and butterfat- and protein percentages, while decreasing milk- and protein production.

Important Information

SA Stud Book and/or the LOGIX system distance itself from any errors which are beyond its control and cannot be held liable for any such errors. SA Stud Book and the LOGIX system only publishes the information at its disposal and assumes that sampling on the farm, handling of the samples and the actions in the laboratory were performed correctly.

Polled and Horned status

The Celtic gene is dominant for polled.

- PcPc: The animal breeds pure for polled. This means that the animal received a polled gene from both its parents and can only transmit the polled gene to its offspring.
- PcH: The animal is polled, but carries the horn gene, because the polled gene (Pc) is dominant over the horn gene (H). It can transmit either a polled or horned gene to its offspring.
- HH: The animal breeds pure for horns. It can only transmit horn genes to its offspring.
- The exact inheritance of 'Scurs' is still unknown.

Beta-Casein composition of milk

Several variants of the gene for beta-casein in milk exists. The most common are the A1- and A2-variants, which are co-dominant. For pure A1-milk the cow therefore has to be A1A1, and for A2-milk she has to be A2A2, with similar quantities of A1- and A2-milk being produced by cows having the heterozygous genotype (A1A2). The A1-variant is associated with higher butterfat- and protein percentages, while the A2-variant has a positive impact on milk- and protein production and is considered to be more healthy.

Kappa-Casein composition of milk

Important in the production of cheese. It forms about 13% of the protein in milk. and influences milk clotting and cheese yield as it is a stabilizing factor that determines how well and fast the milk coagulates. Two different forms of Kappa-Casein are tested for, with 3 different genotypes that can therefore occur depending on the variants that were carried over by the parents: AA, AB or BB. These genotypes produce different forms of Kappa-Casein in the milk which influences the quality of the cheese. Cows with BB-genotypes produce milk with higher levels of fat and protein that clots more quickly

and produce the highest cheese yield and is therefore the most desired genotype.

Beta-Lactoglobulin (LGB)

Associated with traits of economical importance in cows relevant to milk composition, quality, yield as well as cheese production. LGB represents around 50% of the whey protein and 12% of the total milk protein of dairy cows. BB-genotypes are associated with milk quality (solids), while AA-genotypes are associated with milk production.

Yellow Milk Fat Variant

A recessive gene, which increase β -carotene, a precursor of Vit A, in milk and results in yellow colouring of the milk.

BLAD (Bovine Leukocyte Adhesion Deficiency)

An unwanted, recessive gene where affected calves often have severe ulcers in the mouth, teeth loss, chronic pneumonia and diarrhoea. Death often occurs at a young age due to infections.

DUMPS

(Deficiency of Uridine Monophosphate Synthase)

A lethal, recessive gene where affected calves are aborted around day 40 of pregnancy. The affected embryos are often resorbed during the first 2 months of gestation, leading to more services per calving and longer than normal calving intervals.

Jersey Haplotype 1

A lethal recessive gene where calves, homozygous for the mutation, are aborted before 60 days of gestation. Mating of two carriers will have a 25% probability to produce lethal progeny.

Genetic Windows

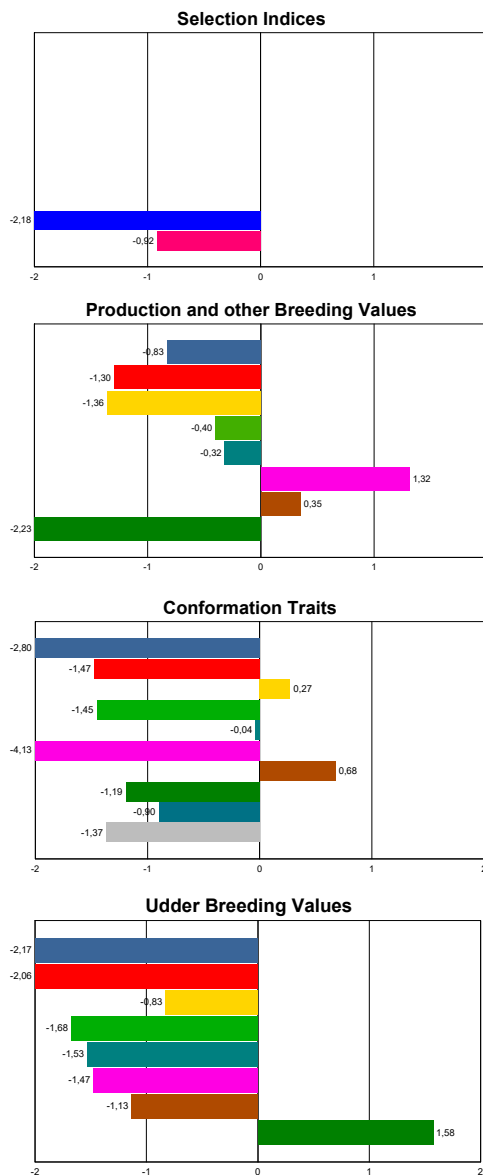
Base Year: 2020

Interpretation:

1. Genetic Windows indicate the average of the active animals in the herd relative to the average of the breed.
2. The average of all the active animals in the breed (cows, heifers and bulls) is set as zero and the deviation of the herd's cows, heifers, sires of cows and sires of heifers from the breed average are expressed in standard deviation units (SDU).
3. This means that approximately 67% of the animals will lie within -1 and +1 SDU from the average, 95% between -2 and +2 SDU and 99% between -3 and +3 SDU because EBV's are normally distributed.
4. Example: If the average of the cows of the herd's Production (combination of milk, butter fat and protein) is -0.5, it means that the active cows of the herd is half an SDU below the average of the breed.
5. Example: If the average Calving Interval of the sires of the active cows in the herd is 1.0, the bulls used in the herd is 1 SDU higher (worse) than the breed average.
6. It is more favourable for Somatic Cell Score and Calving Interval to be below breed average.
7. Deviations from the average can be inaccurate if the number of animals on which it is based is low.

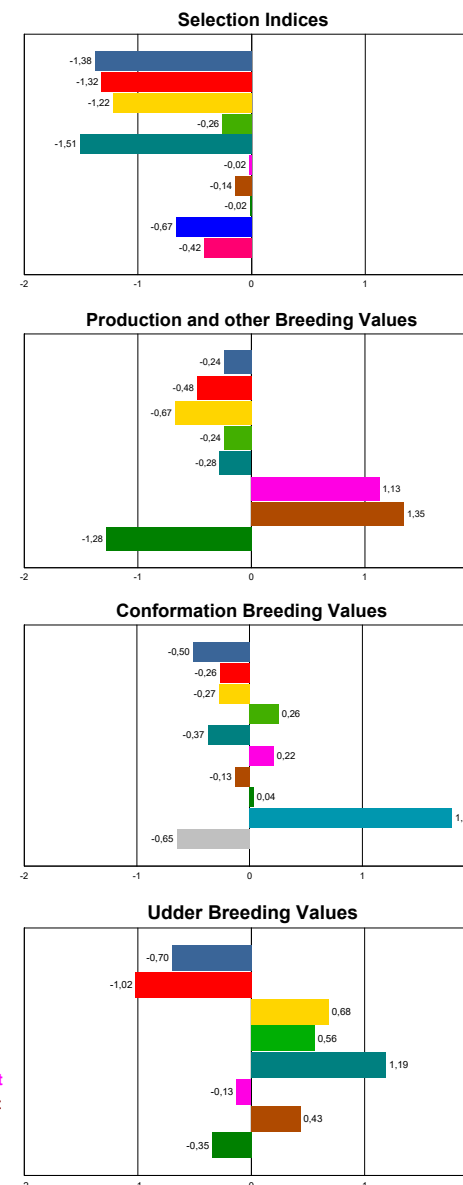
Note : The higher the Body Weight Composite (BWC), the heavier the cow

Cows with measurements



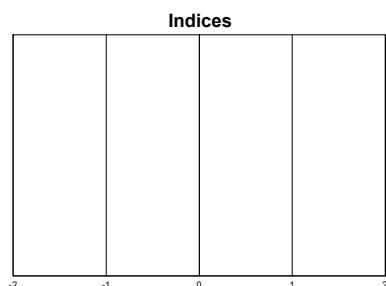
Sires of Cows

SAINET
CYI (Cheese Yield Index)
FUI (Func. Udder Index)
FTI (Func. Type Index)
FMI (Fluid Milk Index)
Body
Udder
Feet & Legs
Body Weight Composite
Efficiency Index

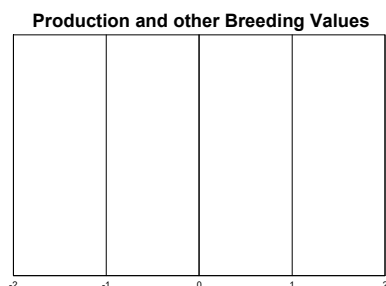


Genetic Windows

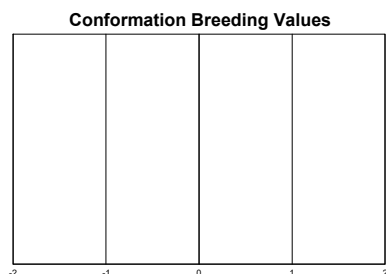
Heifers



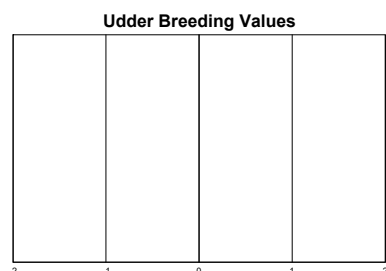
SAINET
CYI (Cheese Yield Index)
FUI (Func. Udder Index)
FTI (Func. Type Index)
FMI (Fluid Milk Index)
Body
Udder
Feet & Legs
Body Weight Composite
Efficiency Index



Milk
Protein
Butterfat
Prot%
Bfat%
Somatic Cells
Calf Interval
Herdlife

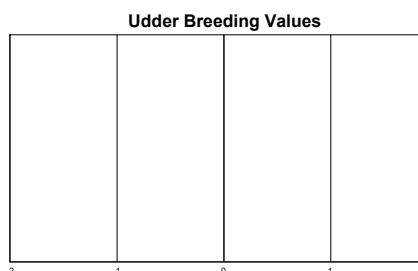
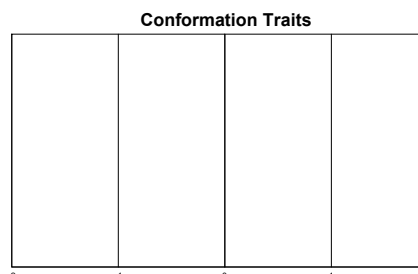
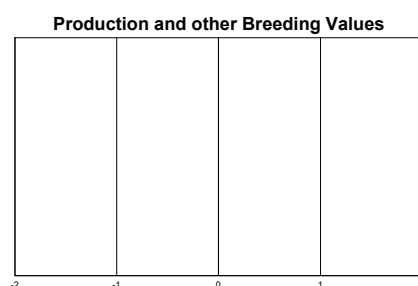
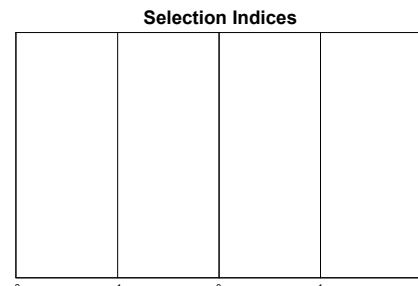


WH: Withers Height
CW: Chest Width
BD: Body Depth
DS: Dairy Strength
RA: Rump Angle
TW: Thurl Width
RLS: Rear Legs Side
FA: Foot Angle
RLR: Rear Legs Rear
BS: Bone Structure

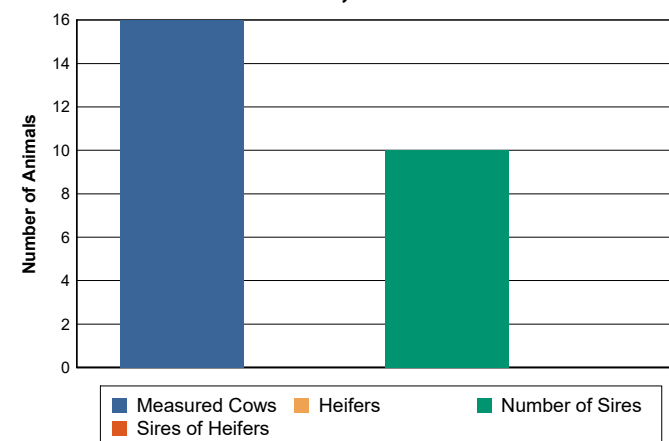


UD: Udder Depth
FUA: Fore Udder Att.
RUH: Rear Udder Height
RUW: Rear Udder Width
UC: Udder Cleft
FTP: Front Teat placemnt
RTP: Rear Teat Placemnt
TL: Teat Length

Sires of Heifers



Number of cows, heifers and sires



Nr of Cows per Age Group

Heifers	Lac 1	Lac 2	Lac 3	Lac 4+
Number				

Jersey

GENETIC RANKING OF THE HERD WITHIN THE ACTIVE BREED

Trait	Top 5%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	Bottom 95%
Melk	541.00	419.34	342.00	280.00	229.00	183.70	141.00	102.00	66.00	29.00	-6.00	-40.00	-76.00	-115.00	-155.00	-205.00	-263.00	-338.00	-457.00
BVet	27.00	22.20	18.70	16.10	14.00	12.00	10.20	8.50	6.80	5.30	3.70	2.00	0.20	-1.50	-3.30	-5.40	-7.90	-11.40	-17.00
Prot	18.40	14.80	12.40	10.50	8.90	7.60	6.30	5.10	3.90	2.80	1.70	0.50	-0.80	-2.00	-3.50	-5.00	-6.90	-9.40	-13.30
BV%	0.56	0.44	0.37	0.31	0.25	0.20	0.16	0.12	0.08	0.04	0.01	-0.02	-0.06	-0.09	-0.14	-0.18	-0.23	-0.30	-0.41
Prot%	0.21	0.17	0.14	0.12	0.10	0.08	0.07	0.05	0.04	0.02	0.01	0.00	-0.02	-0.03	-0.05	-0.07	-0.09	-0.12	-0.17
SCS	-22.66	-19.18	-16.66	-14.61	-12.72	-11.01	-9.31	-7.66	-6.10	-4.56	-3.03	-1.39	0.27	2.02	3.98	6.11	8.76	12.18	17.35
TKP	-7.90	-6.30	-5.30	-4.50	-3.80	-3.20	-2.60	-2.10	-1.50	-1.00	-0.40	0.20	0.80	1.40	2.20	3.00	4.00	5.40	7.30
KudLewe	118.00	115.00	113.00	111.00	110.00	109.00	107.00	106.00	105.00	104.00	103.00	101.00	100.00	99.00	97.00	96.00	93.00	91.00	86.00
LGI	106.06	105.04	104.35	103.81	103.36	102.93	102.55	102.16	101.79	101.43	101.07	100.67	100.24	99.80	99.34	98.78	98.15	97.31	95.96
DTI	110.83	108.63	107.17	106.15	105.27	104.39	103.66	102.78	102.20	101.46	100.88	100.15	99.41	98.68	97.80	96.93	95.76	94.15	91.51
LIGGAAM	108.00	107.00	106.00	105.00	104.00	104.00	103.00	102.00	102.00	101.00	101.00	100.00	100.00	99.00	98.00	97.00	96.00	95.00	93.00
UIER	107.00	106.00	105.00	105.00	104.00	103.00	103.00	102.00	102.00	101.00	101.00	100.00	99.00	98.00	98.00	97.00	96.00	94.00	92.00
H&B	110.00	108.00	107.00	106.00	105.00	105.00	104.00	103.00	102.00	102.00	101.00	100.00	99.00	98.00	97.00	96.00	94.00	93.00	91.00
SAINET	108.02	106.83	106.01	105.30	104.73	104.21	103.69	103.19	102.70	102.18	101.66	101.11	100.55	99.95	99.27	98.50	97.58	96.44	94.66
FMI	109.30	107.89	106.87	106.03	105.31	104.66	104.05	103.48	102.91	102.34	101.78	101.21	100.60	99.97	99.26	98.41	97.44	96.14	94.16
CYI	111.18	109.14	107.85	106.79	105.97	105.23	104.53	103.88	103.29	102.63	101.98	101.31	100.61	99.78	98.90	97.98	96.87	95.33	92.99

The green blocks indicate where the herd ranks within the active breed for each trait/selection index.

Jersey

Genetic Levels of Cows and Heifers

	Cows and Heifers		Cows		Heifers	
	Herd	Breed	Herd	Breed	Herd	Breed
Nr cows	16	36670	16	20759	0	15911
Avg. Inbreeding	5.00	7.28	5.00	7.07		7.56
Nr >6.25% inbred		23780		12397		11383
Breeding Values (EBVs)						
Milk	-216	38	-216	13		69
Butterfat	-13.4	5.2	-13.4	2.5		8.6
Protein	-9.9	2.7	-9.9	1.1		4.7
Butterfat %	-0.04	0.06	-0.04	0.03		0.09
Protein %	-0.02	0.02	-0.02	0.01		0.04
Somatic Cells	12.52	-3.96	12.52	-2.02		-6.48
Calf Interval	1.00	-0.71	1.00	-0.38		-1.13
Herdlife	81.3	103.2	81.3	103.4		103.1
Selection Indices						
SAINET		101.9		100.6		103.8
CYI		102.4		101.1		104.4
FMI		102.1		101.0		104.0
FTI		100.9		100.1		102.1
FUI		101.9		100.5		104.1
Body		101.0		100.4		101.9
Udder		100.7		99.6		102.3
Feet & Legs		101.1		100.5		102.1
BWC	93.7	101.3	93.7	100.8		101.9
EFI	95.7	101.4	95.7	100.5		102.9

The average breeding values and indices of the cows and heifers currently in the herd and breed as on 2026/09/09

Genetic Levels of Bulls

	Bulls Used	
	Herd	Breed
Nr of bulls	10	1248
Avg. Inbreeding	6.77	7.65
Nr >6.25% inbred	6	935
Breeding Values (EBVs)		
Milk	-36	98
Butterfat	-4.0	5.6
Protein	-1.9	4.2
Butterfat %	-0.03	0.02
Protein %	-0.01	0.01
Somatic Cells	10.21	-0.47
Calf Interval	5.73	0.04
Herdlife	91	102.5
Selection Indices		
SAINET	95.7	101.7
CYI	95.2	102.3
FMI	94.5	101.9
FTI	100.4	101.4
FUI	93.5	100.8
Body	100.6	101.6
Udder	100.2	101.5
Feet & Legs	101.1	101.2
BWC	98.8	100.9
EFI	99.1	102.2

The average breeding values and indices of bulls in the herd and breed.

Jersey

- Inbreeding primarily leads to decreased fertility and low survivability of calves.
- The effects of inbreeding can be observed from 6.25% onwards.
- It is therefore highly recommended to record pedigree information as accurately and completely as possible and to use a selection programme for selection of unrelated bulls.
- Incomplete or incorrect pedigree information can be reported to SA Stud Book. Inbreeding is dependent on pedigree information. Conventional methods for the Calculation of inbreeding coefficients usually assume that unknown parents are unrelated. However, this is usually far from the truth. An algorithm is used for the calculation of inbreeding, where the average inbreeding coefficient is assigned to unknown parents based on the generation in which they were born. This result is a more accurate reflection of inbreeding of the herd and breed.

Inbreeding Levels for Specific Matings

Progeny with Parents :	25%
Full Brother x Full Sister :	25%
Half Brother x Half Sister :	12.5%
One Common Grandparent :	6.25%
One Common Great-Grandparent :	3.125%

Level and Rate of Inbreeding

Year of Birth	Level (%) *	% Rate / Year
2000 - 2023	6.51	0.12
Recommendations:	< 6.25	< 0.1 - 0.2

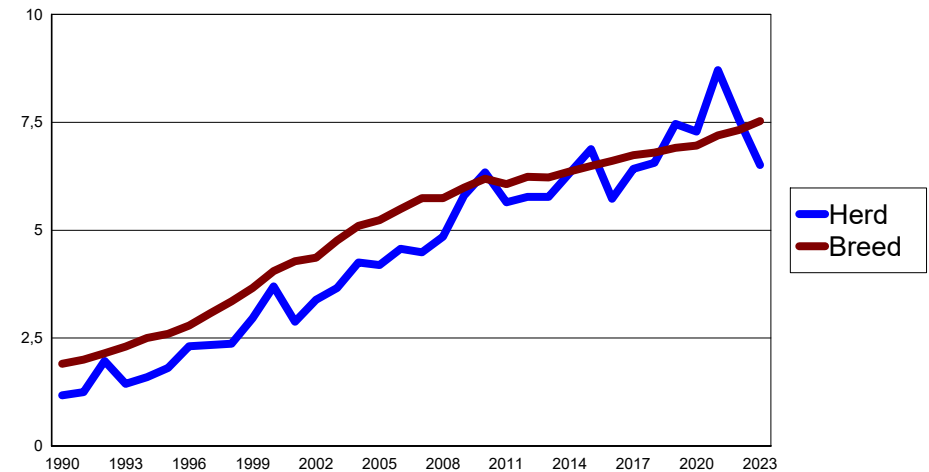
* Of the last birth year

Pedigree Information

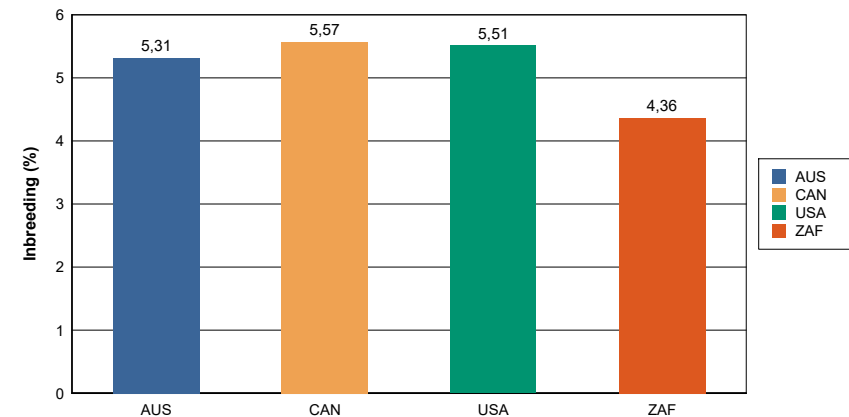
	Number	%
Known Sires	14	88
Known Dams	4	25

Please note: Inbreeding is under-estimated when pedigree information is incomplete.

Inbreeding: Herd vs Breed

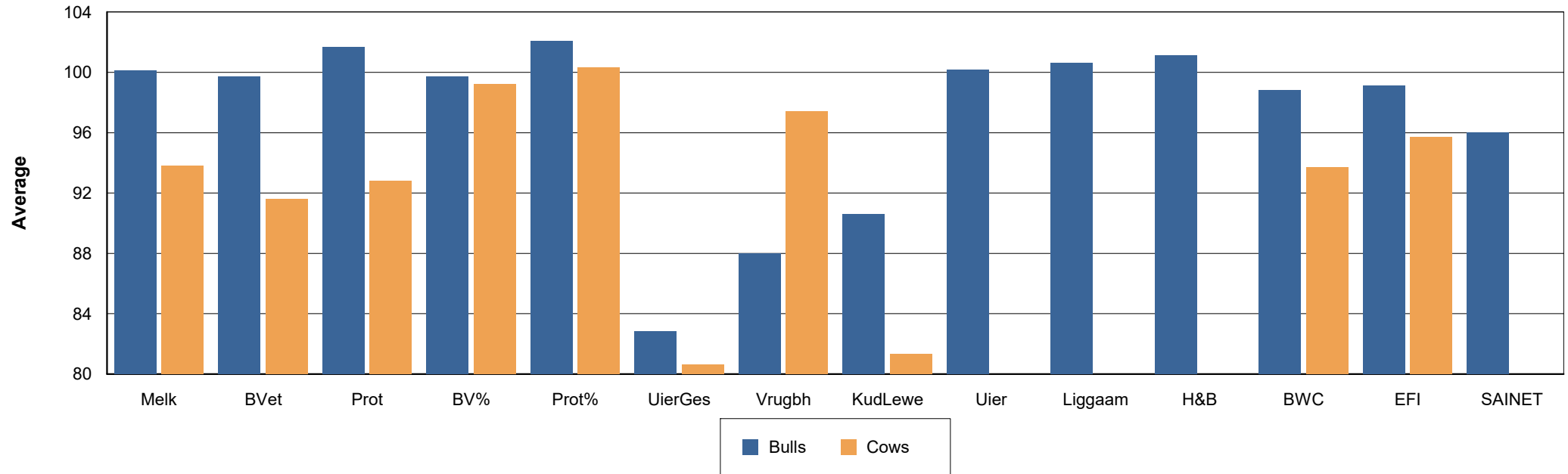


Average Inbreeding per Country of Sire



Jersey

Genetic Levels of the Herd



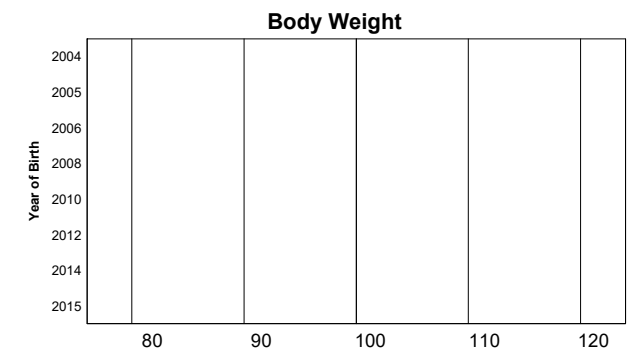
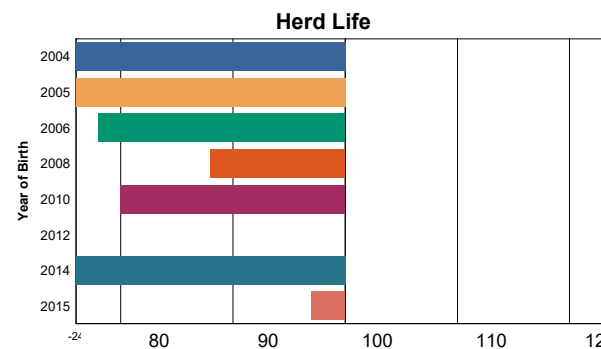
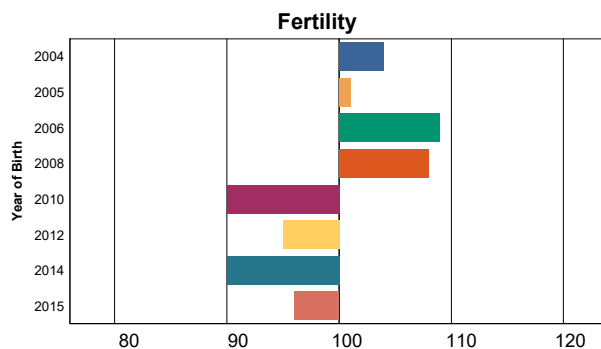
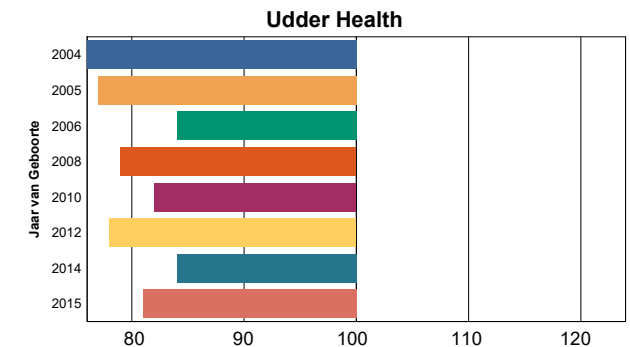
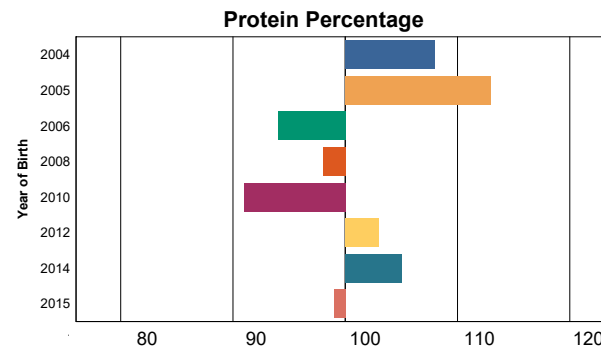
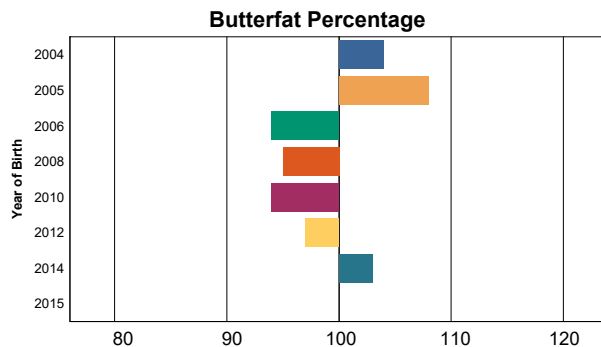
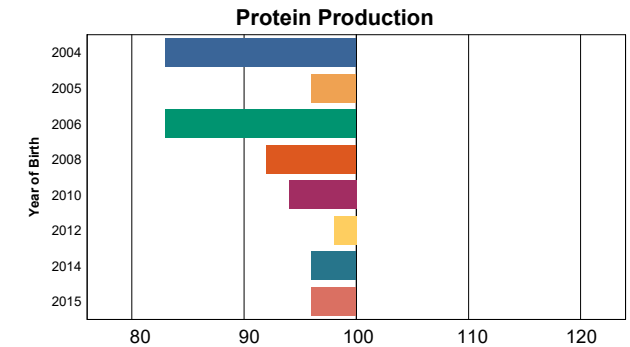
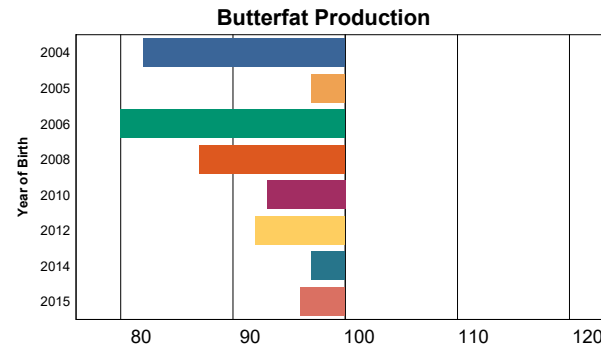
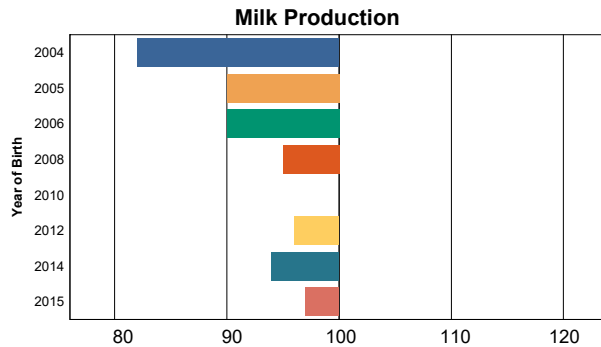
Jersey

Genetic Averages of Active Cows per Lactation Group

Trait	Heifers		Lactation 1		Lactation 2		Lactation 3		Lactation 4+	
	Herd	Breed	Herd	Breed	Herd	Breed	Herd	Breed	Herd	Breed
Milk		103,8	95,0	102,4	85,0	102,8	94,0	101,7	99,0	101,1
Butterfat		110,5	93,5	108,5	80,0	106,3	92,3	104,1	93,0	102,9
Protein		109,2	94,9	107,0	81,5	106,6	92,3	104,8	96,0	103,2
BF%		104,2	99,5	104,1	99,0	102,0	99,7	101,4	95,0	101,2
Prot%		105,9	101,1	105,3	100,0	104,2	99,3	103,7	96,0	102,6
UdderHealth		99,6	81,1	98,4	74,0	96,5	80,0	94,3	91,0	92,6
Fertility		101,4	94,9	100,4	107,0	99,2	97,3	99,4	103,0	100,4
Herdlife		103,1	78,0	102,0	76,0	102,3	85,0	103,9	113,0	104,7
BWC		101,9	94,3	102,0	93,2	101,4		100,7		99,5
EFI		102,9	99,4	101,3	92,0	101,0		100,4		99,8
Body		101,9		101,4		100,9		100,2		99,5
Udder		102,3		100,2		100,2		99,7		98,9
F&L		102,1		101,5		100,7		100,5		99,7
FMI		104,0		102,0		101,4		100,8		100,0
CYI		104,4		102,5		101,6		100,8		99,9
SAINET		103,8		101,9		101,2		100,4		99,5

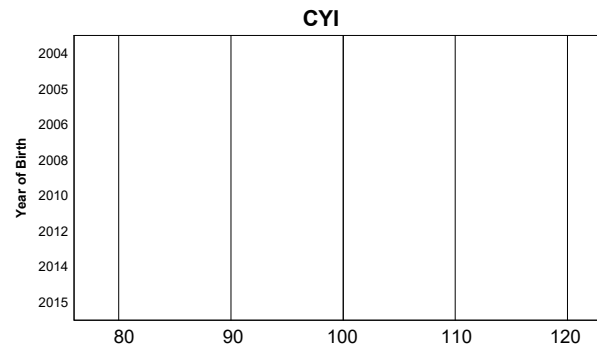
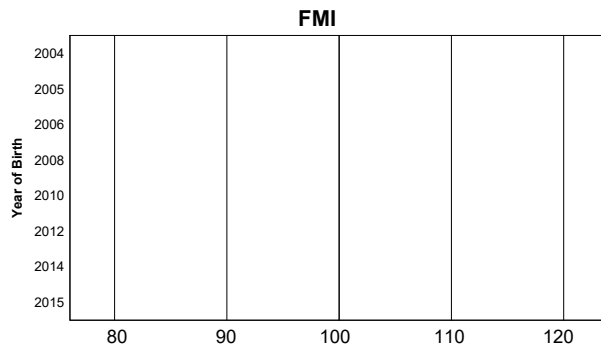
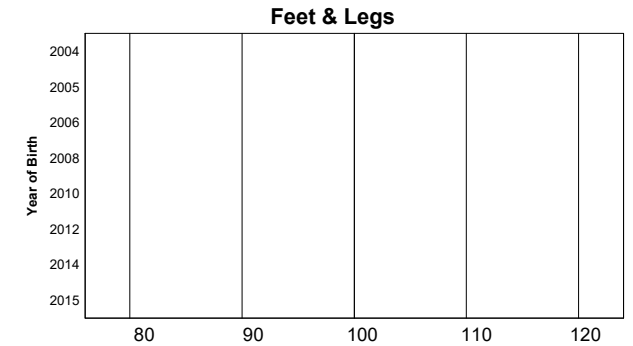
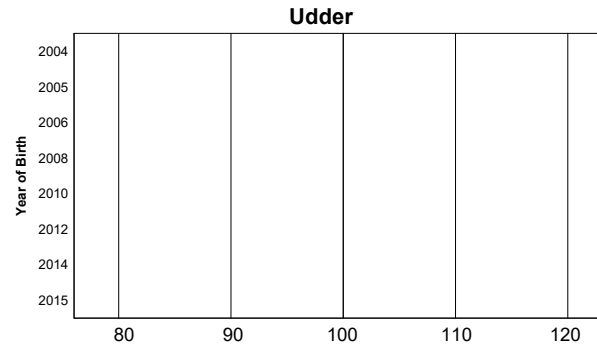
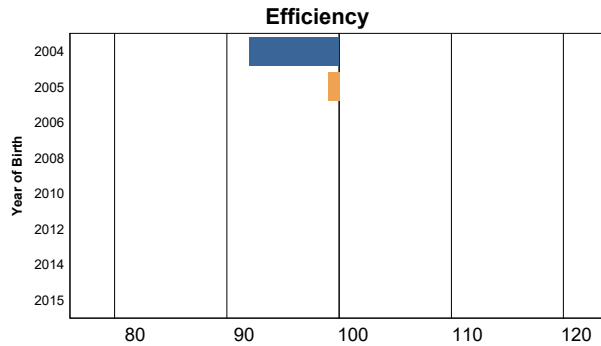
Jersey

Average Performance of Active Cows per Year of Birth

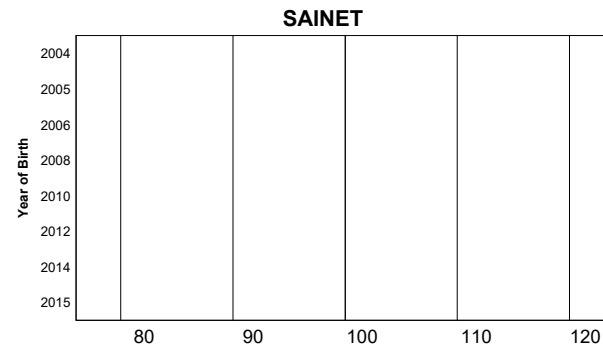


Jersey

Average Performance of Active Cows per Year of Birth

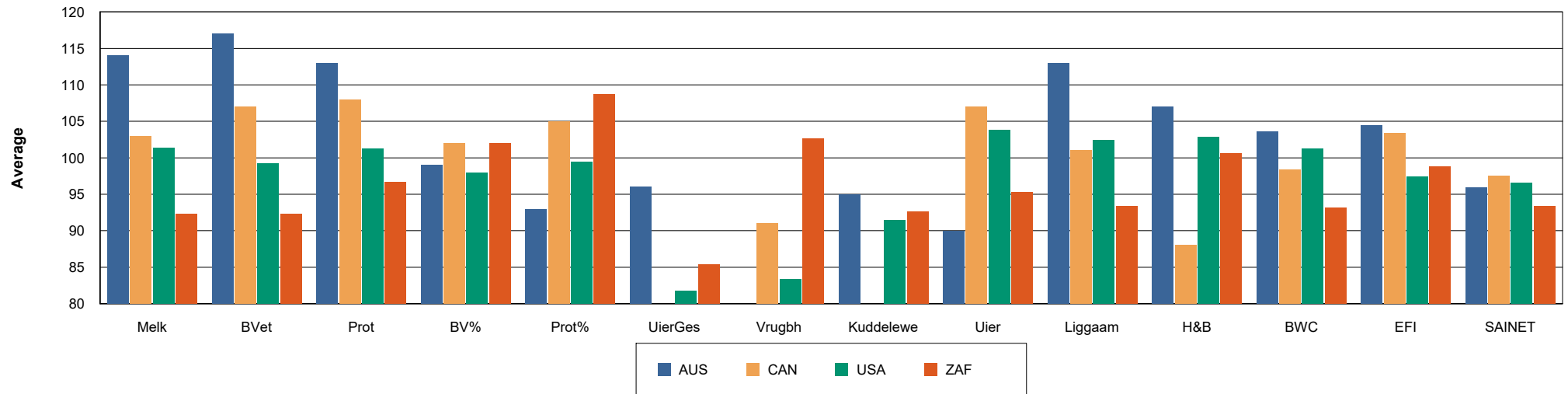


Year of Birth	Number
2004	1
2005	1
2006	2
2008	2
2010	2
2012	1
2014	4
2015	3



Jersey

Average Genetic Levels per Country of Sire

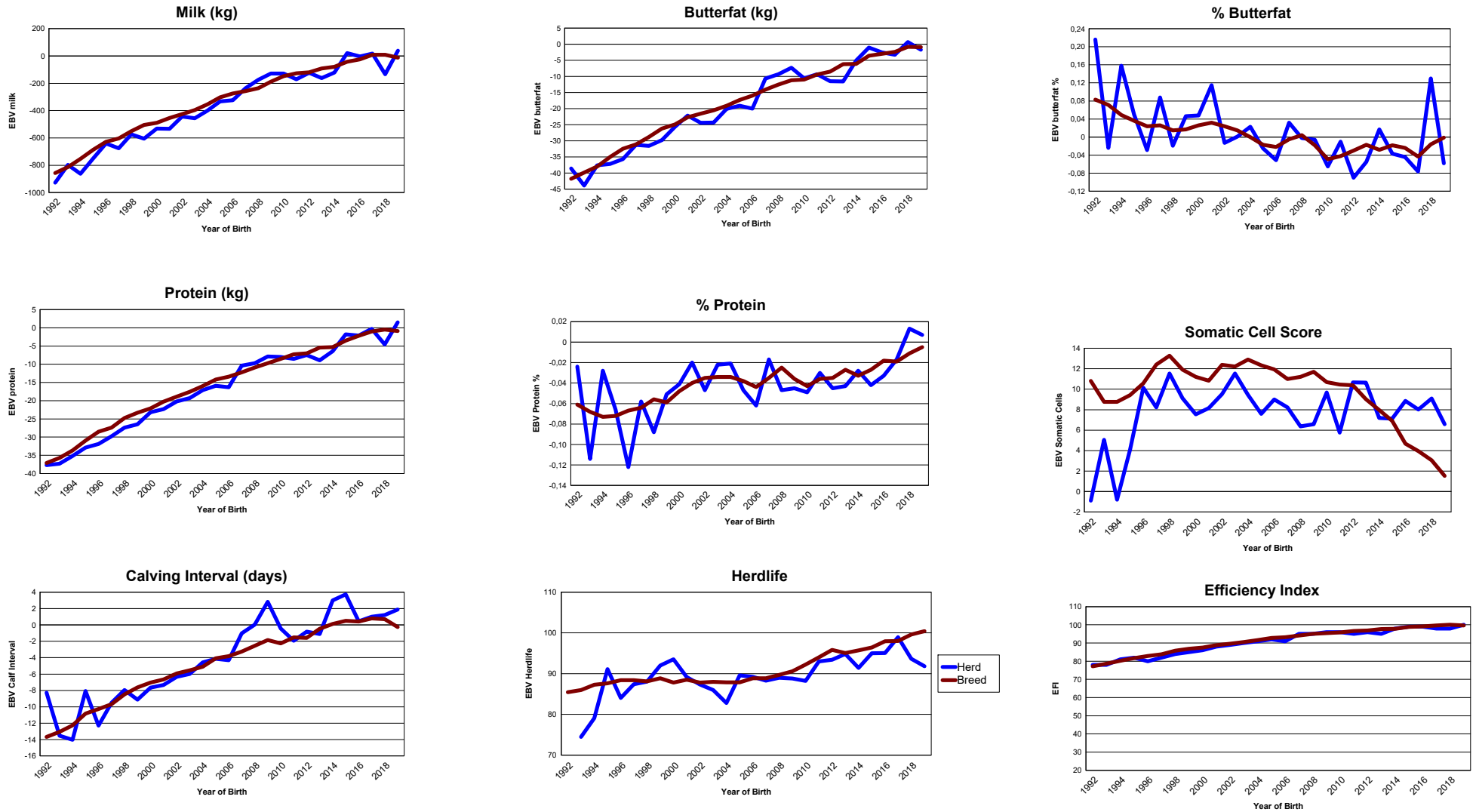


Number of Bulls and Daughters per Country of Sire

Country	Nr of Bulls	Nr of Daughters
AUS	1	1
CAN	1	2
USA	5	6
ZAF	3	7

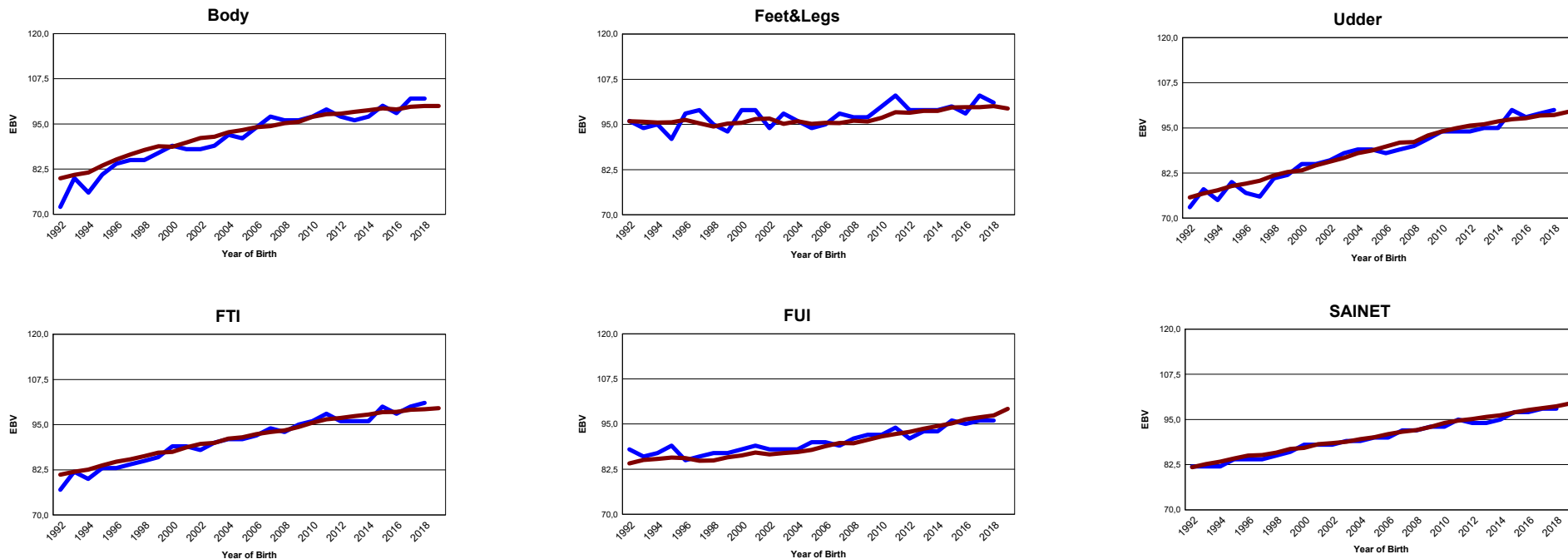
Jersey

Herd History : Genetic trends of the Herd (blue) and Breed (brown): Breeding Values



Jersey

Herd History : Genetic Trends of the Herd (blue) and Breed (brown): Selection Indices



The average breeding values of cows measured in the herd and breed pre

Genetic Trends

Cows measured in the Breed											
Birth Year	Number of cows			EBV Milk	EBV Bfat	EBV Prot	EBV Bfat%	EBV Prot%	EBV Somatic	EBV Calfint	EBV Herdlife
	Milk	Solids									SAINET
2013	6968	6967	6967	-92	-6.2	-5.4	-0.02	-0.03	9.0	-0.5	95.1
2014	6644	6644	6644	-79	-6.1	-5.3	-0.03	-0.03	8.0	0.1	95.7
2015	6475	6461	6461	-42	-3.6	-3.5	-0.02	-0.03	6.9	0.5	96.4
2016	6287	6220	6219	-24	-3.0	-2.2	-0.02	-0.02	4.7	0.4	98.0
2017	6401	6205	6205	10	-2.4	-1.0	-0.04	-0.02	4.0	0.8	98.0
2018	6508	6459	6458	9	-0.8	-0.5	-0.02	-0.01	3.1	0.7	99.6
2019	7038	6909	6907	-12	-0.9	-0.9	0.00	-0.01	1.5	-0.3	100.4

Cows measured in Herd											
Birth Year	Number of Cows			EBV Milk	EBV Bfat	EBV Prot	EBV Bfat%	EBV Prot%	EBV Somatic	EBV Calfint	EBV Herdlif
	Milk	Solids									SAINE
2013	47	47	47	-162	-11.6	-8.9	-0.06	-0.04	10.6	-1.1	94.8
2014	29	29	29	-121	-5.1	-6.4	0.02	-0.03	7.2	3.0	91.4
2015	16	16	16	21	-1.0	-1.8	-0.04	-0.04	7.1	3.7	95.0
2016	18	18	18	-3	-2.5	-2.1	-0.04	-0.03	8.9	0.4	95.1
2017	18	18	18	18	-3.3	-0.3	-0.08	-0.02	8.0	1.0	98.9
2018	10	10	10	-134	0.7	-4.6	0.13	0.01	9.1	1.2	93.7
2019	6	6	6	38	-1.7	1.5	-0.06	0.01	6.6	1.9	91.8

Percentile Tables

All Animals

Trait	EBV Avg	Std. Dev.	Max	5%	10%	25%	50%	75%	90%	95%	Min
Melk	42	308	1836	548	427	234	33	-152	-335	-454	-1373
Bottervet	5.2	13.7	77.9	27.2	22.3	14.1	5.3	-3.3	-11.5	-17.2	-80.0
Proteien	2.8	9.9	59.0	18.6	15.0	9.1	2.9	-3.4	-9.3	-13.3	-48.8
Bottervet%	0.05	0.30	1.49	0.56	0.44	0.24	0.04	-0.14	-0.31	-0.42	-1.75
Proteien%	0.02	0.12	0.70	0.21	0.17	0.10	0.02	-0.05	-0.12	-0.17	-0.59
Somaties	-3.8	12.4	90.4	-26.7	-22.7	-12.7	-4.5	4.2	12.5	17.7	-54.0
Kalf Interval	-0.7	4.8	29.3	-9.8	-7.9	-3.8	-1.0	2.2	5.5	7.5	-24.6
Kudde Lewe	103	10	149	118	115	110	104	97	91	86	43
Liggaam	101	5	132	108	107	104	101	98	95	93	72
Uier	101	5	125	108	106	104	101	98	94	92	74
Hoewe & Benc	101	6	139	110	108	105	102	97	93	91	56
FTI	101	3	116	106	105	103	101	99	96	95	80
CYI	102	6	125	111	109	106	103	99	95	93	72
FMI	102	5	120	109	108	105	102	99	96	94	75
SAINET	102	4	117	108	107	105	102	99	96	95	79

Cows and Heifers

Trait	EBV Avg	Std. Dev.	Max	5%	10%	25%	50%	75%	90%	95%	Min
Melk	40	306	1836	542	421	231	31	-153	-334	-453	-1373
Bottervet	5.2	13.6	77.9	27.1	22.2	14.0	5.3	-3.3	-11.5	-17.1	-80.0
Proteien	2.8	9.8	59.0	18.4	14.9	9.0	2.9	-3.4	-9.3	-13.3	-48.8
Bottervet%	0.06	0.29	1.49	0.55	0.44	0.25	0.04	-0.14	-0.30	-0.42	-1.75
Proteien%	0.02	0.12	0.70	0.21	0.17	0.10	0.02	-0.05	-0.12	-0.17	-0.59
Somaties	-3.9	12.3	54.9	-22.6	-19.2	-12.7	-4.5	4.0	12.2	17.3	-54.0
Kalf Interval	-0.7	4.7	22.4	-7.9	-6.3	-3.8	-1.0	2.2	5.4	7.4	-24.6
Kudde Lewe	103	10	148	118	115	110	104	97	91	86	54
Liggaam	101	5	132	108	107	104	101	98	95	93	74
Uier	101	5	120	108	106	104	101	98	94	92	75
Hoewe & Benc	101	6	131	110	108	105	102	97	93	91	68
FTI	101	3	113	106	105	103	101	99	96	95	84
CYI	102	6	125	111	109	106	103	99	95	93	74
FMI	102	5	120	109	108	105	102	99	96	94	81
SAINET	102	4	116	108	107	105	102	99	96	95	82

All Bulls

Trait	EBV Avg	Std. Dev.	Max	5%	10%	25%	50%	75%	90%	95%	Min
Melk	99	358	1482	652	542	358	105	-139	-361	-504	-1077
Bottervet	5.6	15.6	54.0	30.3	25.2	16.0	6.1	-3.8	-14.3	-20.8	-62.2
Proteien	4.2	11.7	42.7	23.3	19.3	12.3	4.1	-3.7	-11.0	-15.0	-36.1
Bottervet%	0.02	0.32	1.28	0.59	0.45	0.20	-0.02	-0.19	-0.36	-0.46	-0.93
Proteien%	0.01	0.13	0.54	0.24	0.17	0.09	0.01	-0.08	-0.16	-0.21	-0.42
Somaties	-0.5	15.8	90.4	-26.0	-19.0	-10.7	-1.0	9.7	20.2	26.0	-48.8
Kalf Interval	0.1	6.7	29.3	-10.0	-7.8	-4.3	-0.4	4.4	8.6	11.7	-21.9
Kudde Lewe	103	14	149	123	118	111	104	95	85	78	43
Liggaam	102	6	126	111	109	105	102	98	94	91	72
Uier	101	7	125	112	109	106	102	97	92	89	74
Hoewe & Benc	101	7	139	112	110	106	102	97	92	89	56
FTI	101	5	116	108	107	105	102	99	96	94	80
CYI	102	7	122	113	111	107	102	98	94	91	72
FMI	102	6	120	112	110	106	102	98	94	91	75
SAINET	102	6	117	110	109	106	102	98	95	92	79

Interpretation:

A percentile table is an indication of where the animal's EBV falls relative to the rest of the breed. If an EBV of an animal falls between the maximum value and 5% level on the percentile table of "All Animals", this EBV is in the top 5% of the breed. If the EBV falls between 5% and 25%, this animal's EBV is in the top 25% of the breed. If the EBV falls within 95% and the minimum value, this EBV is in the bottom 5% of the breed for that specific trait.

Bulls

Bulls are sorted alphabetically

M = MACE (International) breeding values AND reliabilities

G = Genomically enhanced EBV

■ Above breed average

■ Top 10% of the breed

■ Bottom 10% of the breed

Bull Information					Selection Indices								Breeding Values (EBV) , Reliabilities (B) and Indices (Ind)													S.A. Daughters and Herds				
Farmnr Regno	Name	Parent Verification	BYear Cnt	% In- brding	SAINET	CYI	FMI	Body	Udder	Feet & Legs	BWC	EFI	Milk B Ind	BFat B Ind	BFat% B Ind	Protein B Ind	Prot% B Ind	Somatics B Ind	Calflnt B Ind	Herdlife B	Lact. > 149d Dgths. Hrds.	Lakt.<150dae Dgths Hrds.	Avg L Ingth	%Shrt Lact	Comp Lact					
Active Breed Average:				7.28	102	102	102	101	101	101	101	101	38	5.2	0.06	2.7	0.02	-4.0	-0.7	103										
61206637	BEULAH TARANAK BADGER-ET		2000 AUS	4.98	96	96	96	113	90	107	104	104	G 360 799 114	GZ 16.0 99 117	-0.05 99	GZ 8.0 99 113	-0.10 99 93	GZ -3.0 99 96	GZ 18.0 99 64	GZ 95 99	1884 123			251 19	3621					
71410203	BW RENEGADE-ET		2008 USA	3.44	94	97	93	86	94	101	101	101	-281 99 92	10.0 99 112	0.44 99 118	-2.0 99 102	0.16 99 118	-2.0 99 95	5.0 90 90	82 93	929 68	1 1	260 15	2010						
EKKP12 29653656	ESBE BROOKES LASSO		1994 ZAF	11.49	94	94	94	86	88	102	98	96	-377 99 88	-8.8 99 96	0.21 99 109	-11.1 99 91	0.06 99 108	-17.0 99 110	-1.1 98 101	96 98	5098 361			262 14	11282					
68690627	FREE-MAR LEGION BUMMER-ET		2007 USA	10.69	94	89	92	109	102	108	104	93	226 81 109	M -13.7 77 91	-0.42 77 84	-4.0 80 99	-0.21 80 83	M 29.1 68 64	M 6.7 51 86	M 76 50	38 11			242 27	64					
68250349	GALAXIES CELEBRITY - ET		2003 USA	8.35	104	102	104	107	115	97	101	98	159 99 107	-6.0 99 98	-0.24 99 91	0.0 99 104	-0.10 99 93	-7.0 98 100	9.0 92 82	125 95	1381 81	7 3	256 16	2816						
62892716	LENCREST BLACKSTONE-ET		2003 CAN	8.85	98	98	96	101	107	88	98	103	57 99 103	5.0 98 107	0.03 98 102	4.0 99 108	0.03 99 105	26.0 97 67	4.0 87 91	76 92	808 98			261 13	1670					
65030165	MAACK DAIRY ECLIPES-P-ET		2005 USA	6.90	92	92	89	109	103	99	103	97	-117 99 97	3.0 99 106	0.16 99 107	-6.0 99 97	-0.02 99 101	25.0 98 68	19.0 92 62	85 95	1328 78			262 14	2934					
CMNR18 34141267	RC BERRETTA JACK		1995 ZAF	1.13	90	90	88	92	100	97	92	96	-403 99 88	-20.1 99 86	0.03 99 102	-10.7 99 92	0.09 99 111	18.9 99 74	-0.8 96 101	81 97	3114 278			261 15	7043					
WJVS39 36737120	SIENHOE BERRETTA'S FUTURE		1996 ZAF	8.99	96	98	98	102	98	103	90	104	G 0 799 101	GZ -8.9 99 95	-0.15 99 95	GZ 2.9 99 107	0.05 99 107	GZ 21.0 99 72	GZ -3.5 99 106	GZ101 99	4506 313			261 15	10199					
68716661	TOLLENAARS IMPULS LEGAL 233-ET		2004 USA	2.91	99	96	97	101	105	109	96	98	G 14 799 102	GZ -16.0 99 89	-0.28 99 90	GZ 0.0 99 104	-0.01 99 102	GZ 11.0 99 82	GZ 1.0 99 97	GZ 89 99	1514 82			261 14	3431					

Bull average (herd) :	6.77	96	95	95	101	100	101	99	99	-36	-4.0	-0.03	-1.9	-0.01	10.2	5.7	91
Nr bulls (herd):	10																
Bull average (breed):	7.65	102	102	102	102	102	101	101	102	98	5.6	0.02	4.2	0.01	-0.5	0.0	103
Nr bulls (breed):	1248																

Most Influential Bulls in the Herd

The difference between the Bull's breeding values and the Average Breeding Values of his Daughters reflects the Genetic Levels of the Dams
The difference between the Average Breeding Values of the Bull's daughters in the Herd and in the Breed reflects the Genetic Level of the Herd within the Breed

Herd Daughters > All Daughters

Herd Daughters < All Daughters

Name		Total Daughters Year of Birth		Active Daughters Year of Birth		Breeding Value- and Selection Indices												
Regnr	Country	In SA In Milk	In Herd In Milk	In SA In Milk	In Herd In Milk		Milk	BFat	Prot	BF%	Prot%	SCS	ICP	HLife	Udder	F&L	EFI	SAINET
Breed Average :							103	107	107	103	105	97	101	103	101	101	102	102
Herd Average :							94	92	93	99	100	81	97	81			95	
1	BEULAH TARANAK BADGER-ET	2006	- 2016	2008	- 2015	Bull EBVs :												
	2400	82	25	1	114	117	113	99	93	96	64	95	90	107	104	96		
	61206637	AUS	1884	64	23	0	Herd Daugtr EBVs :											
							101	101	98	100	96	90	87	93	89	104	97	93
							102	103	100	100	96	89	87	92	90	104	98	94
2	RC BERRETTA JACK	1997	- 2011	2004	- 2006	Bull EBVs :												
	3522	76	3	3	88	86	92	102	111	74	101	81	100	97	96	90		
	34141267	ZAF	3114	73	3	3	Herd Daugtr EBVs :											
							84	82	83	102	104	78	109	83	91	96	91	88
							85	82	84	101	104	79	109	85	91	96	91	88
3	ESBE BROOKES LASSO	1995	- 2009	2006	- 2006	Bull EBVs :												
	6037	60	1	1	88	96	91	109	108	110	101	96	88	102	96	94		
	29653656	ZAF	5098	58	1	1	Herd Daugtr EBVs :											
							84	85	81	105	101	96	111	92	85	100	90	90
							85	86	83	105	102	96	110	92	85	99	90	90
4	BW RENEGADE-ET	2010	- 2022	2013	- 2022	Bull EBVs :												
	1167	22	17	2	92	112	102	118	118	95	90	82	94	101	101	94		
	71410203	USA	929	14	15	0	Herd Daugtr EBVs :											
							95	99	96	104	102	91	96	85	92	99	98	92
							94	103	97	109	108	89	97	89	94	98	99	94
5	MAACK DAIRY ECLIPES-P-ET	2007	- 2023	2011	- 2015	Bull EBVs :												
	1602	21	34	1	97	106	97	107	101	68	62	85	103	99	97	92		
	65030165	USA	1328	7	28	0	Herd Daugtr EBVs :											
							96	98	94	103	99	77	82	88	97	100	96	92
							96	99	95	103	100	76	84	90	97	98	97	92
6	LENCREST BLACKSTONE-ET	2005	- 2019	2009	- 2019	Bull EBVs :												
	1076	20	19	2	103	107	108	102	105	67	91	76	107	88	103	98		
	62892716	CAN	808	10	13	0	Herd Daugtr EBVs :											
							99	100	100	101	101	77	99	84	100	92	100	96
							99	100	100	100	101	75	98	85	99	92	99	95
7	GALAXIES CELEBRITY - ET	2009	- 2026	2010	- 2026	Bull EBVs :												
	1795	8	137	1	107	98	104	91	93	100	82	125	115	97	98	104		
	68250349	USA	1381	4	97	0	Herd Daugtr EBVs :											
							100	95	97	96	96	92	90	108	101	98	96	97
							102	96	99	95	96	91	93	111	103	98	98	99

Most Influential Bulls in the Herd

The difference between the Bull's breeding values and the Average Breeding Values of his Daughters reflects the Genetic Levels of the Dams
The difference between the Average Breeding Values of the Bull's daughters in the Herd and in the Breed reflects the Genetic Level of the Herd within the Breed

Herd Daughters > All Daughters

Herd Daughters < All Daughters

Name		Total Daughters Year of Birth		Active Daughters Year of Birth		Breeding Value- and Selection Indices											
Regnr	Country	In SA In Milk	In Herd In Milk	In SA In Milk	In Herd In Milk	Milk	BFat	Prot	BF%	Prot%	SCS	ICP	HLife	Udder	F&L	EFI	SAINET
Breed Average :						103	107	107	103	105	97	101	103	101	101	102	102
Herd Average :						94	92	93	99	100	81	97	81			95	
8	TOLLENAARS IMPULS	2010	- 2019	2011	- 2019	Bull EBVs :											
	LEGAL 233-ET	1956	6	28	1	Herd Daugtr EBVs :											
	68716661	1514	3	23	0	All Daughter EBVs :											
	USA					102	89	104	90	102	82	97	89	105	109	98	99
9	SIENHOE BERRETTA'S	1998	- 2020	2005	- 2012	Bull EBVs :											
	FUTURE	5217	5	4	1	Herd Daugtr EBVs :											
	36737120	4506	3	3	0	All Daughter EBVs :											
	ZAF					101	95	107	95	107	72	106	101	98	103	104	96

Cows

Animals sorted on farmersnumber within birth year

*Inbreeding in red is high

Above breed average

Top 10% of the breed

Bottom 10% of the breed

G = Genomically enhanced EBV

Cow				Selection Indices								Breeding Values (EBV), Reliabilities (B) and Indices (Ind)													Average Production Values							Pedigree		
FarmNr Regno	Parent Verification	Name	% In- brd*	SAI	CYI	FMI	Body	Udder	F&L	BWC	EFI	Milk B	Bfat Ind	Bfat% B	Prot Ind	Prot% B	SCS Ind	Calf Int B	HerdLif Ind	Tests/lact. B e	1	2	3	Nr Lac	ICP	Kg Milk	Kg Bfat	% Bfat	Kg Prot	% Prot	Sire Dam	Dam Byear		
Active Breed Average:			7.28	102	102	102	101	101	101	101	101	38	5.2	0.06	2.7	0.02	-4.0	-0.7	103															
												Year of Birth : 2004																						
0492 64038227		0492	2.33									93	92	-553 56	-25.0 82	0.08 55	-18.5 54	0.06 54	22.9 41	-2.3 70	74 32	104 104	34	6	7	2	443	5104	237	4.6	195	3.8	RC BERRETTA JACK DHFS38	1996
												Year of Birth : 2005																						
0560 66390188		0560	4.52									94	99	-340 47	-6.9 90	0.19 39	-7.0 108	0.11 46	16.2 96	-1.2 46	63 113	101 31	27 77	24 24	4	1	0	5614	259	4.6	216	3.9	RC BERRETTA JACK	
												Year of Birth : 2006																						
0602 66390196		0602	3.71											-385 50	-29.4 88	-0.16 50	-21.3 94	-0.11 49	15.1 92	-5.4 34	78 78	110 110	27 27	8	2	329	4394	194	4.4	161	3.7	ESBE BROOKES LASSO RKB 020077	2002	
0643B 66390162		0643B	4.73											-298 49	-25.0 91	-0.17 42	-15.8 94	-0.07 48	3.8 96	-3.9 32	78 89	107 25	27 27	7	3	336	4536	214	4.7	169	3.7	RC BERRETTA JACK		
												Year of Birth : 2008																						
0812 70611645		0812	4.94											-58 44	-9.1 99	-0.11 35	-4.4 96	-0.04 43	24.2 99	-5.7 21	72 69	110 110	12 12	7	1	0	5074	223	4.4	193	3.8	RKB0577	2005	
0813 70611652		0813	4.94											-326 43	-28.7 90	-0.20 38	-17.0 93	-0.07 40	4.9 96	-2.8 19	103 88	12 12	105 105	12 12	5	1	0	4890	204	4.2	181	3.7	RKB0064	2000
												Year of Birth : 2010																						
1013 550059906		1013	5.31											-23 25	-4.3 101	-0.06 25	-6.5 98	-0.09 25	3.1 94	9.5 25	85 90	24 24	81 81	24 24		1	0	5690	306	5.4	212	3.7	BEULAH TARANAK BADGER-ET	
10311 550532625		10311	5.31											-90 20	-19.7 98	-0.26 19	-12.3 90	-0.15 20	19.4 88	0.6 16	75 74	11 11	98 98	12 12		1	0	5743	301	5.2	204	3.6	FREE-MAR LEGION BUMMER-ET	
												Year of Birth : 2012																						
1059 550532586		1059	5.38											-149 25	-12.8 96	-0.09 25	-5.5 97	0.00 25	15.7 103	2.0 25	100 78	25 25	95 95	25 25		1	0	7691	342	4.4	252	3.3	SIENHOE BERRETTA'S FUTURE	
												Year of Birth : 2014																						
1407 550533079		1407	5.49											-121 25	-5.8 97	0.00 25	-5.1 101	-0.01 25	18.2 102	0.3 24	64 75	22 22	99 99	25 25		1	0	5946	317	5.3	206	3.5	LENCREST BLACKSTONE-ET	
143119 550533028		143119	5.49											-142 25	-16.5 97	-0.16 25	-7.1 94	-0.03 25	11.0 100	4.4 25	74 82	26 26	91 91	26 26		1	0	6033	292	4.8	191	3.2	TOLLENAARS IMPULS LEGAL 233-ET	
14392 550533141		14392	5.49											-290 25	-3.4 91	0.20 25	-8.1 109	0.06 25	4.2 108	7.6 24	73 89	24 24	85 85	26 26		1	0	6338	294	4.6	184	2.9	BW RENEGADE-ET	

Cows

Animals sorted on farmersnumber within birth year

*Inbreeding in red is high

Above breed average

Top 10% of the breed

Bottom 10% of the breed

G = Genomically enhanced EBV

Cow				Selection Indices								Breeding Values (EBV), Reliabilities (B) and Indices (Ind)													Average Production Values							Pedigree									
FarmNr	Parent	Name	% In-brd*	SAI	CYI	FMI	Body	Udder	F&L	BWC	EFI	Milk	Bfat	Bfat%	Prot	Prot%	SCS	Calf Int	HerdLif	Tests/lact.	Nr	Kg	Kg	%	Kg	%	Sire	Dam													
Regno	Verification											B	Ind	B	Ind	B	Ind	B	Ind	B	1	2	3	Lac	ICP	Milk	Bfat	Bfat	Prot	Prot	Dam	Byear									
Active Breed Average:			7.28	102	102	102	101	101	101	101	101	38	5.2	0.06	2.7	0.02	-4.0	-0.7	103																						
				Year of Birth : 2014																																					
14396		14396	5.49									-290	-3.4	0.20	-8.1	0.06	4.2	7.8	71														BW RENEGADE-ET								
550532480												25	91	25	100	25	109	25	95	25	108	24	89	24	84	26	1	0	6338	282	4.5	192	3.0								
				Year of Birth : 2015																																					
15006		15006	5.65									-207	-6.8	0.07	-9.7	-0.03	17.5	7.9	93															MAACK DAIRY ECLIPES-P-ET							
550532487												25	94	25	97	25	104	25	93	25	100	24	76	24	84	26	3	493	4593	271	5.9	183	4.0								
1545		1545	5.65									-121	-5.8	0.00	-5.1	-0.01	18.2	-0.7	84															LENCREST BLACKSTONE-ET							
550533113												25	97	25	98	25	101	25	98	25	102	24	75	23	101	25	3	355	4039	228	5.7	155	3.8								
1568		1568	5.65									-70	-11.6	-0.14	-6.8	-0.07	1.9	-2.1	113																GALAXIES CELEBRITY - ET						
550533046												25	99	25	93	25	95	25	96	25	96	24	91	25	103	26	4	337	5093	252	4.9	191	3.8								

Average (cow herd): 5.00 94 96 -216 -13.4 -0.04 -9.9 -0.02 12.5 1.0 81
Nr of cows (herd): 36670
Cow average (breed): 7.07 101 101 101 100 100 101 101 101 13 2.5 0.03 1.1 0.01 -2.0 -0.4 103
Nr cows (breed): 16

Selection List

Registered animals are sorted on SAINET
Commercial animals are sorted on EBV for protein

*Inbreeding above 6.25% is high!

Top 25% of the herd
Bottom 25% of the herd

Above breed average
M = MACE (International) breeding value

Top 10% of the breed

Bottom 10% of the breed

G = Genomically enhanced EBV

Animal					Selection Indices							Breeding Values										Pedigree		
	Farmnr Regno	Name	B Year	% In- brd	SAI	CYI	FMI	Body	Udder	F&L	BWC	EFI	EBV Milk	EBV Bfat	EBV Bfat%	EBV Prot	EBV Prot%	EBV Som	EBV Calf Int	EBV Herdlife	B	Sire	Dam	Dam BYr
1	0812 70611645	0812	2008	4.94									-58	-9.1	-0.11	-4.4	-0.04	24.2	-5.7	72	44		RKB0577	2005
2	1407 550533079	1407	2014	5.49									-121	-5.8	0.00	-5.1	-0.01	18.2	0.3	64	25	LENCREST BLACKSTONE-ET		
3	1545 550533113	1545	2015	5.65									-121	-5.8	0.00	-5.1	-0.01	18.2	-0.7	84	25	LENCREST BLACKSTONE-ET		
4	1059 550532586	1059	2012	5.38									-149	-12.8	-0.09	-5.5	0.00	15.7	2.0	100	25	SIENHOE BERRETTA'S FUTURE		
5	1013 550059906	1013	2010	5.31									-23	-4.3	-0.06	-6.5	-0.09	3.1	9.5	85	25	BEULAH TARANAK BADGER-ET		
6	1568 550533046	1568	2015	5.65									-70	-11.6	-0.14	-6.8	-0.07	1.9	-2.1	113	25	GALAXIES CELEBRITY - ET		
7	0560 66390188	0560	2005	4.52							94	99	-340	-6.9	0.19	-7.0	0.11	16.2	-1.2	63	47	RC BERRETTA JACK		
8	143119 550533028	143119	2014	5.49									-142	-16.5	-0.16	-7.1	-0.03	11.0	4.4	74	25	TOLLENAARS IMPULS LEGAL 233-ET		
9	14392 550533141	14392	2014	5.49									-290	-3.4	0.20	-8.1	0.06	4.2	7.6	73	25	BW RENEGADE-ET		
10	14396 550532480	14396	2014	5.49									-290	-3.4	0.20	-8.1	0.06	4.2	7.8	71	25	BW RENEGADE-ET		
11	15006 550532487	15006	2015	5.65									-207	-6.8	0.07	-9.7	-0.03	17.5	7.9	93	25	MAACK DAIRY ECLIPES-P-ET		
12	10311 550532625	10311	2010	5.31									-90	-19.7	-0.26	-12.3	-0.15	19.4	0.6	75	20	FREE-MAR LEGION BUMMER-ET		
13	0643B 66390162	0643B	2006	4.73									-298	-25.0	-0.17	-15.8	-0.07	3.8	-3.9	78	49	RC BERRETTA JACK		
14	0813 70611652	0813	2008	4.94									-326	-28.7	-0.20	-17.0	-0.07	4.9	-2.8	103	43		RKB0064	2000
15	0492 64038227	0492	2004	2.33							93	92	-553	-25.0	0.08	-18.5	0.06	22.9	-2.3	74	56	RC BERRETTA JACK	DHFS38	1996
16	0602 66390196	0602	2006	3.71									-385	-29.4	-0.16	-21.3	-0.11	15.1	-5.4	78	50	ESBE BROOKES LASSO	RKB 020077	2002

Logix Conformation and Udder Traits : Bulls

Only sires of classified cows are indicated.

Bull Information			Selection Indices					Conformation Breeding Values										Udder Breeding Values										S.A. daughters/ herds	
Bull Name	SAI	Body	Udder	Feet & Legs	BWC	EFI	B	WH Wither Height	CW Chest Width	BD Body Depth	DS Dairy Strengt	RA Rum p	TW Thurl Width	RLS RearLe gs	RLR RearLe gs	BS Bone Structu re	FA Foot Angle	FUA ForeUdd er	RUH RearUdd er Heighter	RUW RearUdd Width	UC Udder Cleft	UD Udder Depth	FTP Front Teat	RTP Rear Teat	TL Teat Length	B			
RC BERRETTA JACK	90	92	100	97	92	96	99	91	97	99	99	87	86	88	103	95	105	97	108	103	104	102	100	101	124	99	1370	177	

Logix Conformation and Udder Breeding Values : Cows

Only classified cows are indicated

Cow Information		Selection Indices					Conformation Breeding Values								Udder Breeding Values										
Farmnr	Cow Name	SAINET	Body	Udder	Feet & Legs	BWC	EFI	WH	CW	BD	DS	RA	TW	RLS	RLR	BS	FA	FUA	RUH	RUW	UC	UD	FTP	RTP	TL
								Wither Height	Chest Width	Body Depth	Dairy Strengt	Rump Angle	Thurl Width	Rear Legs	Rear Legs	Bone Structur	Foot Angle	ForeUdder	Rear Udder	Rear Udder	Udder Cleft	Udder Depth	Front Teat	Rear Teat	Teat Length
0492	0492					93	92	89	94	99	94	98	87	101	96	96	97	94	99	96	95	96	99	101	109
0560	0560					94	99	91	96	105	97	102	83	104	97	98	97	88	94	92	96	91	90	94	109
Average								90	95	102	96	100	85	103	97	97	97	91	97	94	95	94	95	97	109

Herd : Extreme Cows per Trait

Top Cows

Breeding Values												Selection Indices													
Milk		Butterfat		Butterfat%		Protein		Protein%		Somatics		Calf Interval		Herdlife		SAINET		CYI		FMI		BWC		EFI	
Farmnr	EBV	Farmnr	EBV	Farmnr	EBV	Farmnr	EBV	Farmnr	EBV	Farmnr	EBV	Farmnr	EBV	Farmnr	EBV	Farmnr	Ind	Farmnr	Ind	Farmnr	Ind	Farmnr	Ind	Farmnr	Ind
1013	-23	14392	-3.4	14392	0.20	0812	-4.4	0560	0.11	1568	1.9	0812	-5.7	1568	113										
0812	-58	14396	-3.4	14396	0.20	1545	-5.1	14396	0.06	1013	3.1	0602	-5.4	0813	103										
1568	-70	1013	-4.3	0560	0.19	1407	-5.1	0492	0.06	0643B	3.8	0643B	-3.9	1059	100										
10311	-90	1545	-5.8	0492	0.08	1059	-5.5	14392	0.06	14392	4.2	0813	-2.8	15006	93										
1407	-121	1407	-5.8	15006	0.07	1013	-6.5	1059	0.00	14396	4.2	0492	-2.3	1013	85										
1545	-121	15006	-6.8	1407	0.00	1568	-6.8	1545	-0.01	0813	4.9	1568	-2.1	1545	84										
143119	-142	0560	-6.9	1545	0.00	0560	-7.0	1407	-0.01	143119	11.0	0560	-1.2	0643B	78										
1059	-149	0812	-9.1	1013	-0.06	143119	-7.1	15006	-0.03	0602	15.1	1545	-0.7	0602	78										
15006	-207	1568	-11.6	1059	-0.09	14392	-8.1	143119	-0.03	1059	15.7	1407	0.3	10311	75										
14392	-290	1059	-12.8	0812	-0.11	14396	-8.1	0812	-0.04	0560	16.2	10311	0.6	143119	74										

Bottom Cows

Breeding Values												Selection Indices													
Milk		Butterfat		Butterfat%		Protein		Protein%		Somatics		Calf Interval		Herdlife		SAINET		CYI		FMI		BWC		EFI	
Farmnr	EBV	Farmnr	EBV	Farmnr	EBV	Farmnr	EBV	Farmnr	EBV	Farmnr	EBV	Farmnr	EBV	Farmnr	EBV	Farmnr	Ind	Farmnr	Ind	Farmnr	Ind	Farmnr	Ind	Farmnr	Ind
0492	-553	0602	-29.4	10311	-0.26	0602	-21.3	0602	-21.30	0812	24.2	1013	9.5	0560	63										
0602	-385	0813	-28.7	0813	-0.20	0492	-18.5	0492	-18.50	0492	22.9	15006	7.9	1407	64										
0560	-340	0492	-25.0	0643B	-0.17	0813	-17.0	0813	-17.00	10311	19.4	14396	7.8	14396	71										
0813	-326	0643B	-25.0	0602	-0.16	0643B	-15.8	0643B	-15.80	1407	18.2	14392	7.6	0812	72										
0643B	-298	10311	-19.7	143119	-0.16	10311	-12.3	10311	-12.30	1545	18.2	143119	4.4	14392	73										
14392	-290	143119	-16.5	1568	-0.14	15006	-9.7	15006	-9.70	15006	17.5	1059	2.0	0492	74										
14396	-290	1059	-12.8	0812	-0.11	14392	-8.1	14392	-8.10	0560	16.2	10311	0.6	143119	74										
15006	-207	1568	-11.6	1059	-0.09	14396	-8.1	14396	-8.10	1059	15.7	1407	0.3	10311	75										
1059	-149	0812	-9.1	1013	-0.06	143119	-7.1	143119	-7.10	0602	15.1	1545	-0.7	0602	78										
143119	-142	0560	-6.9	1545	0.00	0560	-7.0	0560	-7.00	143119	11.0	0560	-1.2	0643B	78										

Herd : Extreme Heifers per Trait

Top Heifers

Breeding Values								Selection Indices				
Milk	Butterfat	Butterfat %	Protein	Protein %	Somatics	Calf Interval	Herdlife	SAINET	CYI	FMI	BWC	EFI
Farmnr EBV	Farmnr EBV	Farmnr EBV	Farmnr EBV	Farmnr EBV	Farmnr EBV	Farmnr EBV	Farmnr EBV	Farmnr Ind	Farmnr Ind	Farmnr Ind	Farmnr Ind	Farmnr Ind

Bottom Heifers

Breeding Values								Selection Indices				
Milk	Butterfat	Butterfat %	Protein	Protein %	Somatics	Calf Interval	Herdlife	SAINET	CYI	FMI	BWC	EFI
Farmnr EBV	Farmnr EBV	Farmnr EBV	Farmnr EBV	Farmnr EBV	Farmnr EBV	Farmnr EBV	Farmnr EBV	Farmnr Ind	Herdnr Ind	Farmnr Ind	Farmnr Ind	Farmnr Ind

Single Gene Traits

0 = Carries no copy of the gene 1 = Carries one copy of the gene 2 = Carries 2 copies of the gene Empty Field = No information available

Farmersnr Regno	Name Birth Date	Breed Fraction (%)	% Homo- zygosity	ABCG2	Casein Beta Kappa	Beta Lacto- Globulin	DGAT1	Yellow Milk Fat	Horns / Polled	BLAD	DUMPS	Mulefoot	JH1

