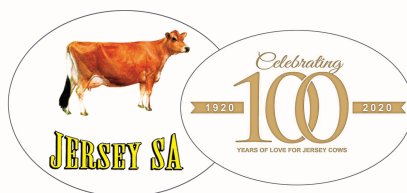




JERSEY GENOMIC BREEDING VALUE REPORT

September 2026



CAIRNBROGIE ESTATES

Kuddenr : 494333



**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

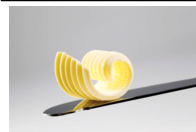
Traits for which breeding values (EBVs) are estimated

Milk (kg)



Milk Production

Butterfat (kg)



Bfat Production

Protein (kg)



Prot Production

Bfat & Prot %



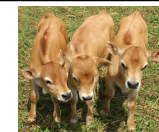
Solid percentages

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:

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

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

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

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

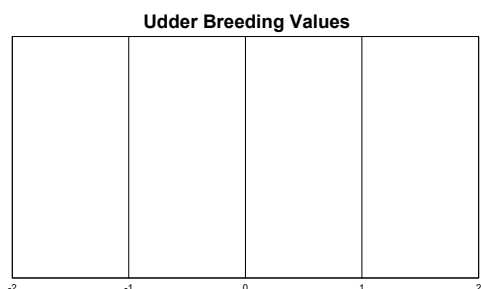
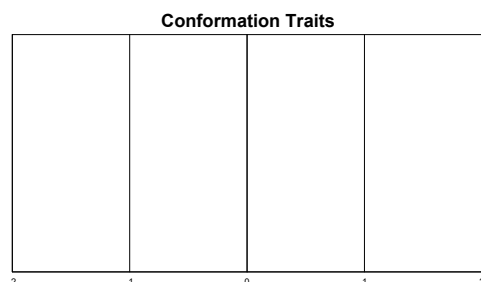
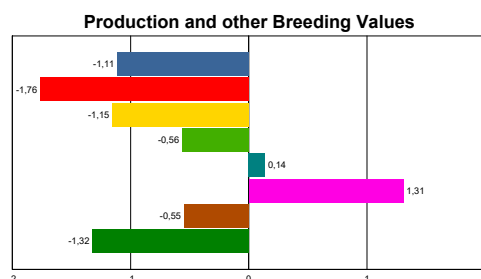
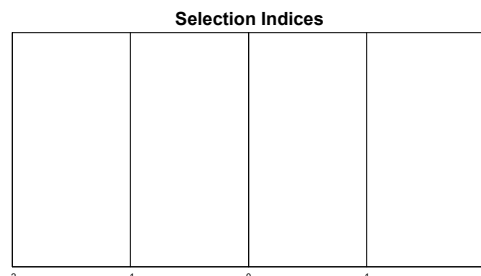
Base Year: 2020

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



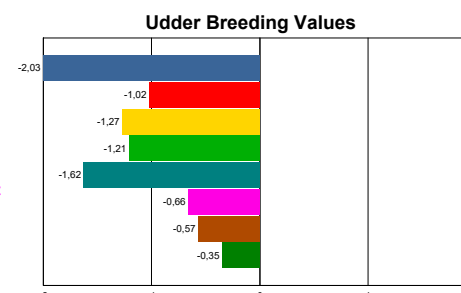
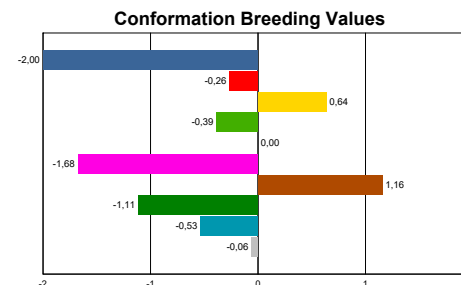
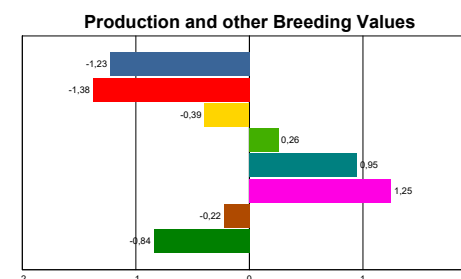
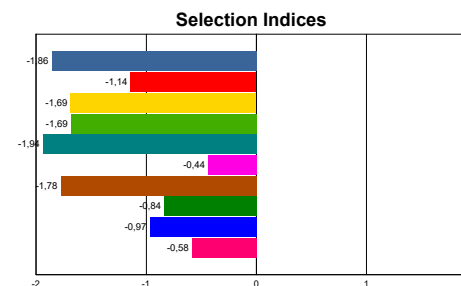
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CYI (Cheese Yield Index)
FUI (Func. Udder Index)
FTI (Func. Type Index)
FMI (Fluid Milk Index)
Body
Udder
Feet & Legs
Body Weight Composite
Efficiency Index

Milk
Protein
Butterfat
Prot%
BFat%
Somatic Cells
Calf Interval
HerdLife

WH: Wither Height
CW: Chest Width
BD: Body Depth
DS: Dairy Strength
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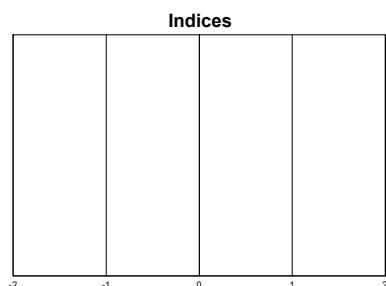
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Sires of Cows

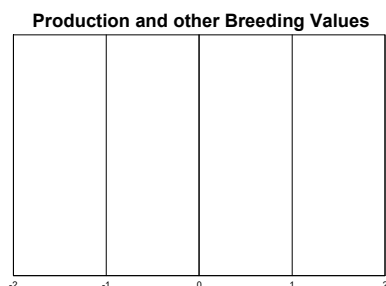


Genetic Windows

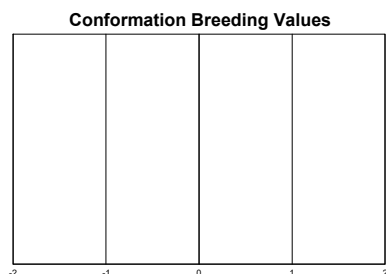
Heifers



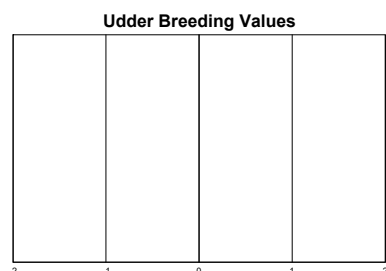
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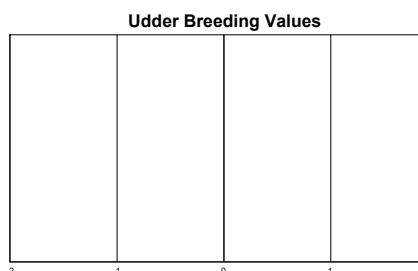
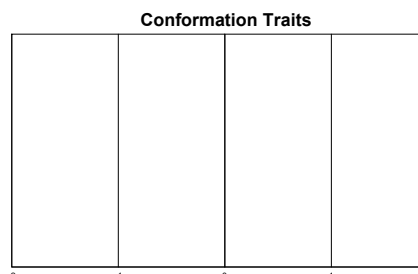
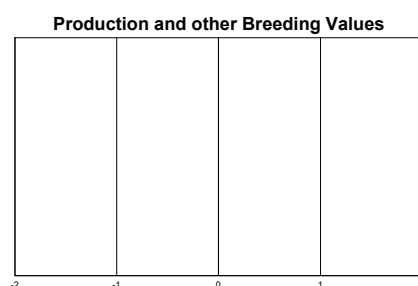
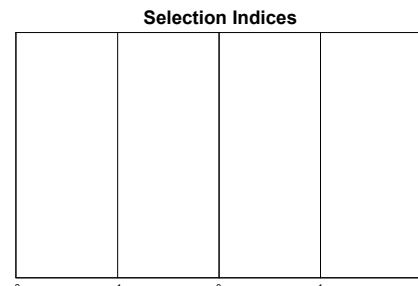


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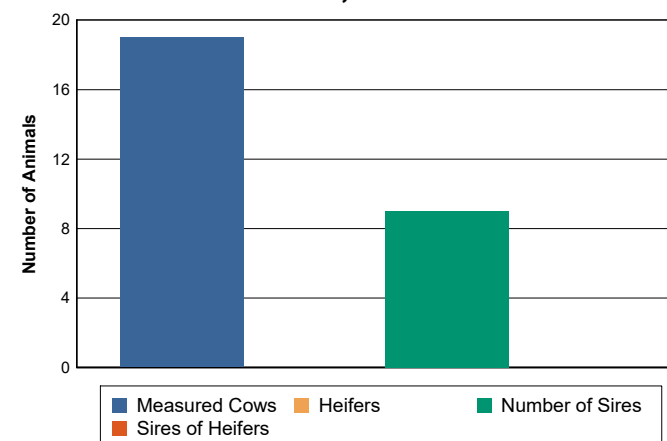


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Sires of Heifers



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 5%
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	19	36670	19	20759	0	15911
Avg. Inbreeding	4.42	7.28	4.42	7.07		7.56
Nr >6.25% inbred	1	23780	1	12397		11383
Breeding Values (EBVs)						
Milk	-303	38	-303	13		69
Butterfat	-10.6	5.2	-10.6	2.5		8.6
Protein	-14.5	2.7	-14.5	1.1		4.7
Butterfat %	0.10	0.06	0.10	0.03		0.09
Protein %	-0.04	0.02	-0.04	0.01		0.04
Somatic Cells	12.43	-3.96	12.43	-2.02		-6.48
Calf Interval	-3.29	-0.71	-3.29	-0.38		-1.13
Herdlife	90.2	103.2	90.2	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		101.3		100.8		101.9
EFI		101.4		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	9	1248
Avg. Inbreeding	2.69	7.65
Nr >6.25% inbred		935
Breeding Values (EBVs)		
Milk	-339	98
Butterfat	-0.2	5.6
Protein	-10.7	4.2
Butterfat %	0.34	0.02
Protein %	0.05	0.01
Somatic Cells	11.71	-0.47
Calf Interval	-1.74	0.04
Herdlife	95	102.5
Selection Indices		
SAINET	93.7	101.7
CYI	95.6	102.3
FMI	92.7	101.9
FTI	95.1	101.4
FUI	90.7	100.8
Body	99.1	101.6
Udder	91.8	101.5
Feet & Legs	96.4	101.2
BWC	97.7	100.9
EFI	97.9	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 - 2009	4.38	0.19
Recommendations:	< 6.25	< 0.1 - 0.2

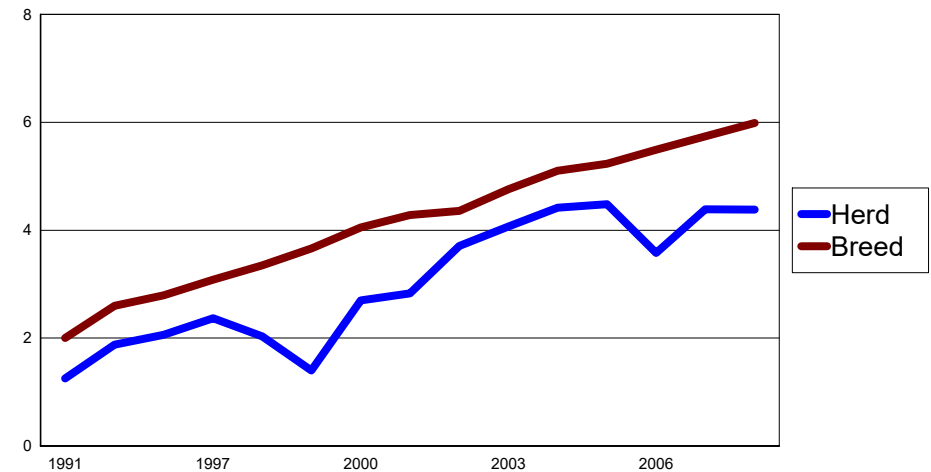
* Of the last birth year

Pedigree Information

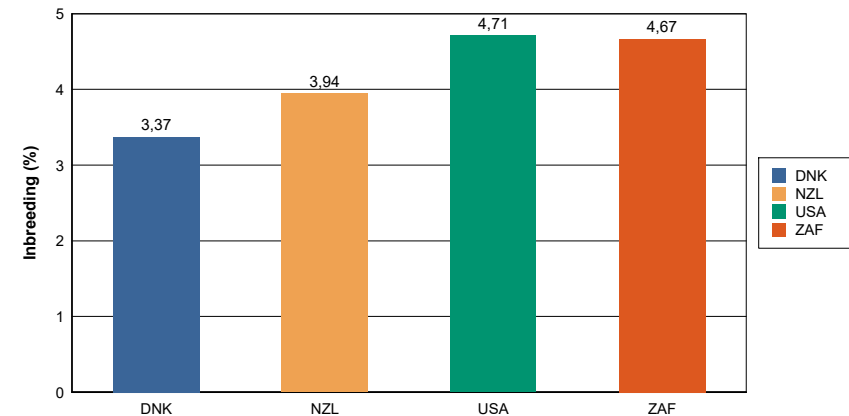
	Number	%
Known Sires	15	79
Known Dams	12	63

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

Inbreeding: Herd vs Breed

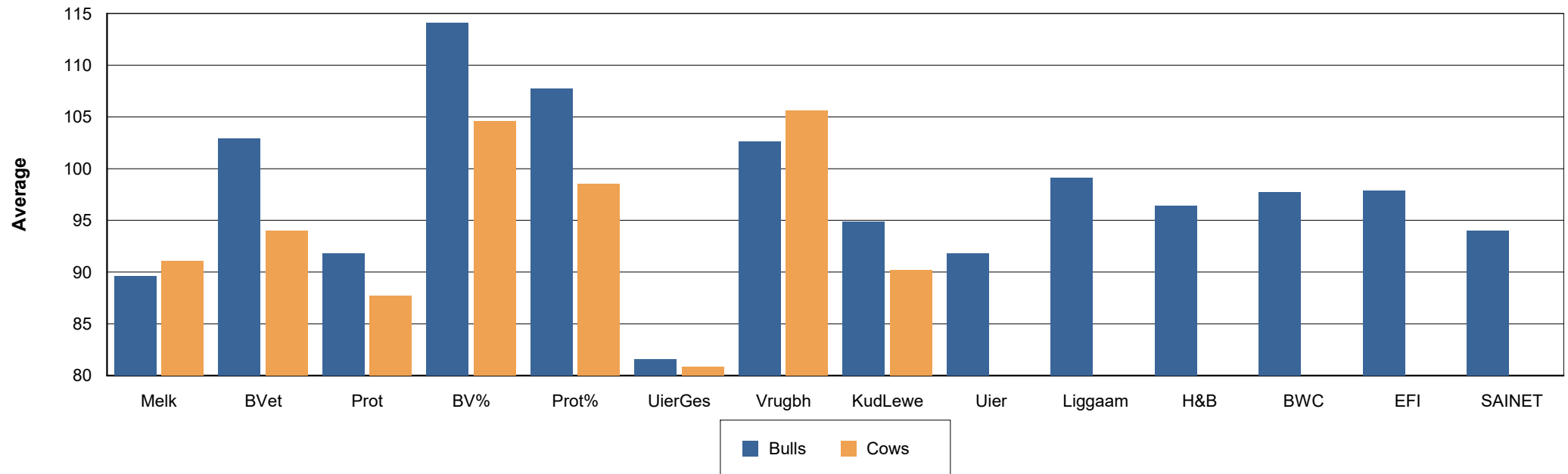


Average Inbreeding per Country of Sire



Jersey

Genetic Levels of the Herd



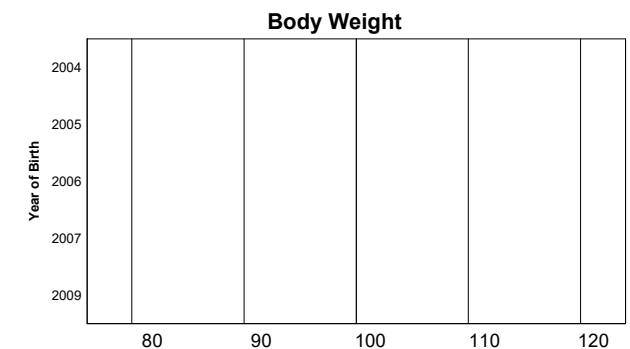
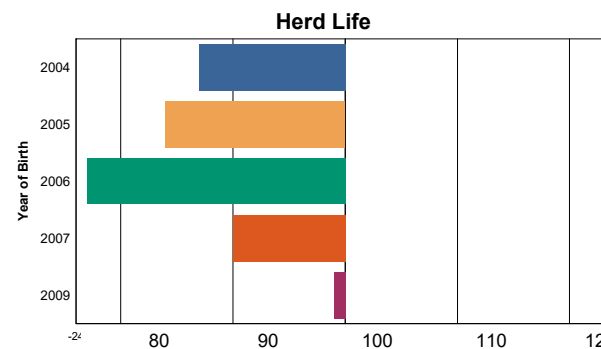
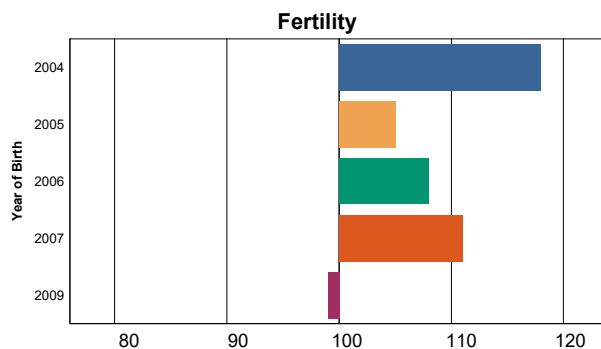
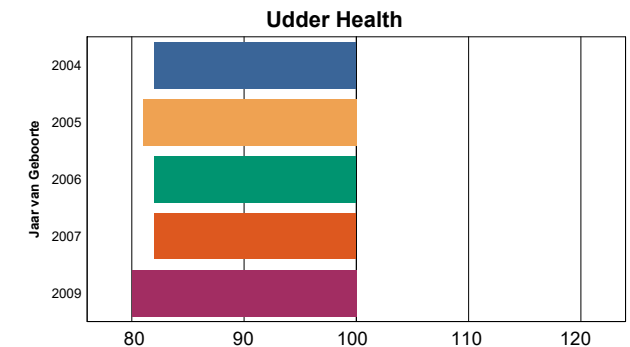
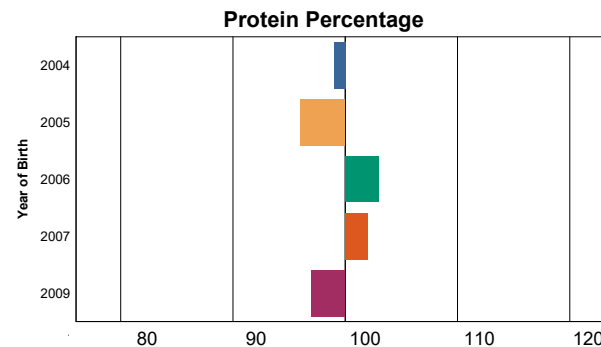
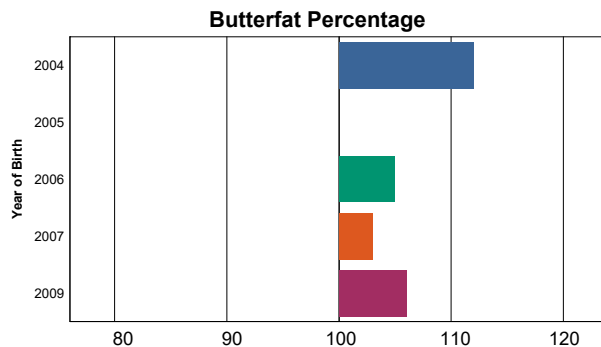
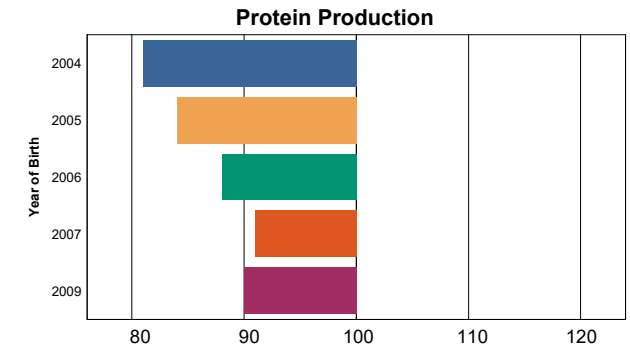
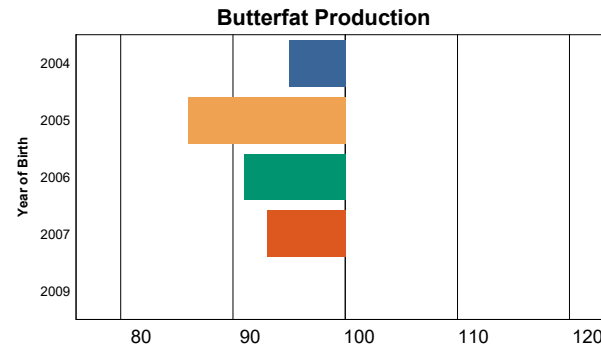
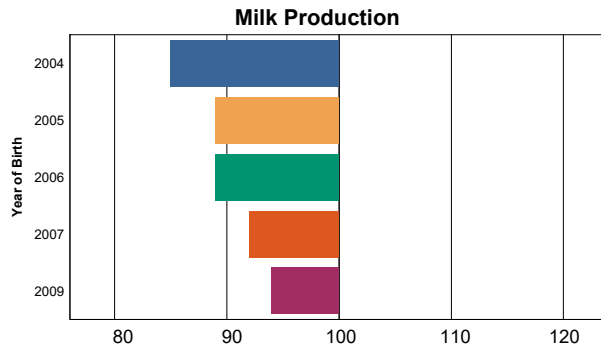
Jersey

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										
Butterfat										
Protein										
BF%										
Prot%										
UdderHealth										
Fertility										
Herdlife										
BWC										
EFI										
Body										
Udder										
F&L										
FMI										
CYI										
SAINET										

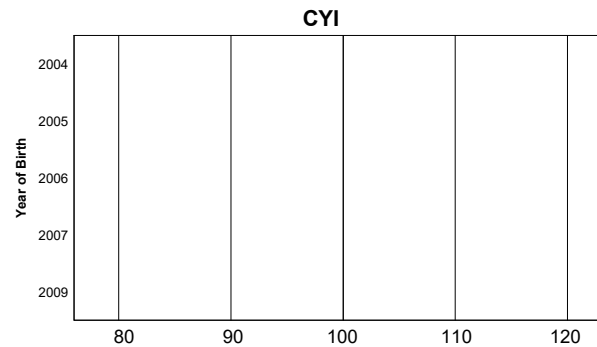
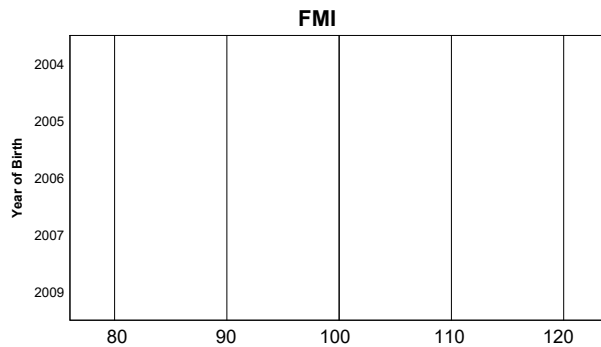
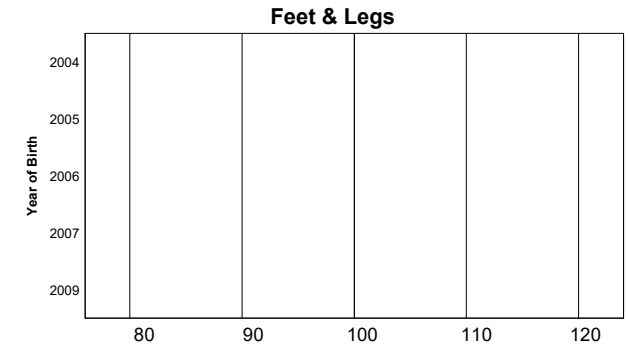
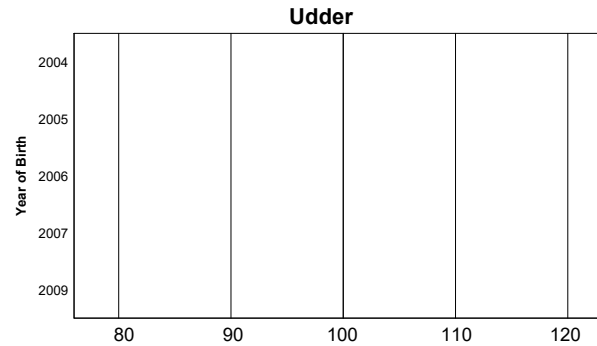
Jersey

Average Performance of Active Cows per Year of Birth

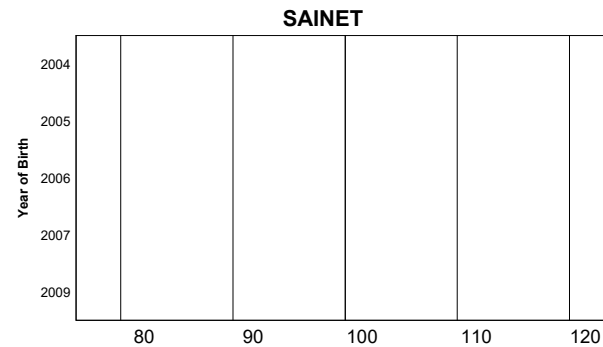


Jersey

Average Performance of Active Cows per Year of Birth

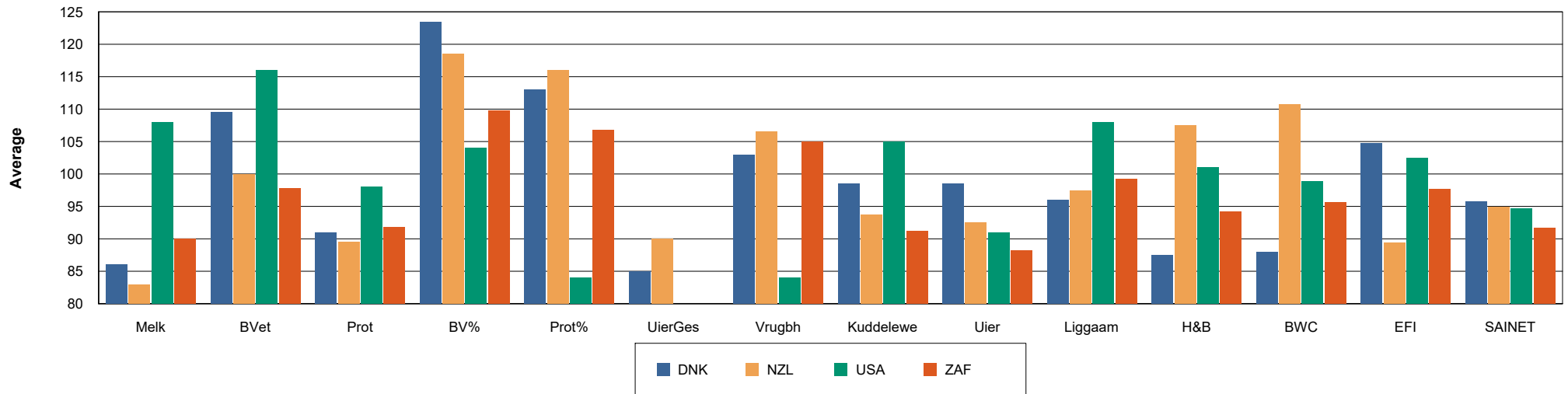


Year of Birth	Number
2004	2
2005	4
2006	2
2007	4
2009	7



Jersey

Average Genetic Levels per Country of Sire

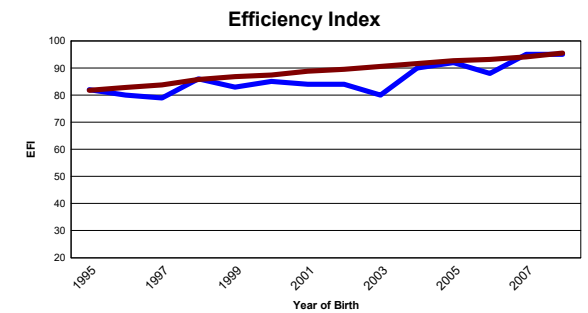
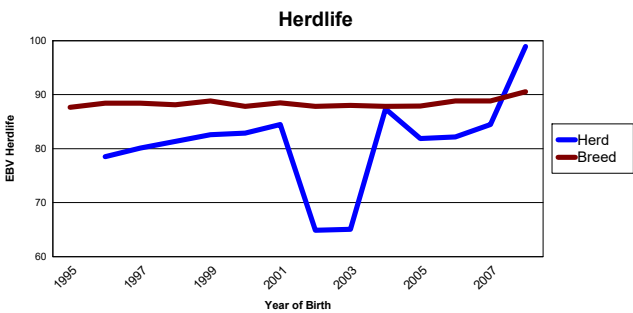
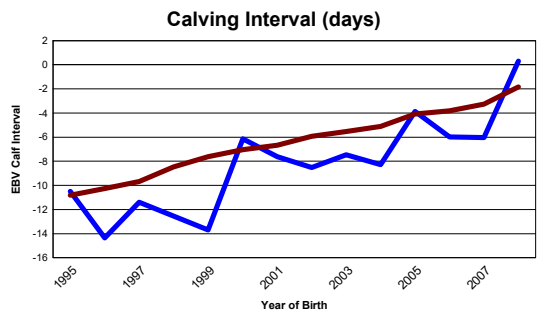
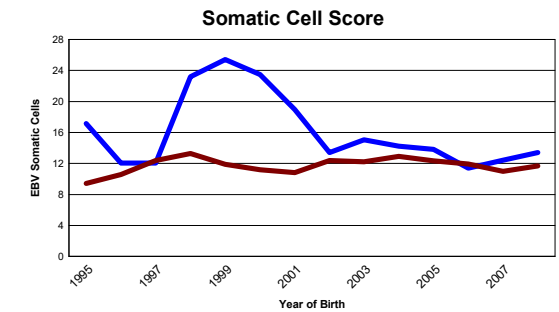
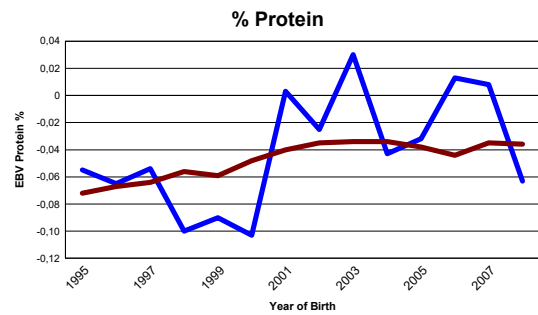
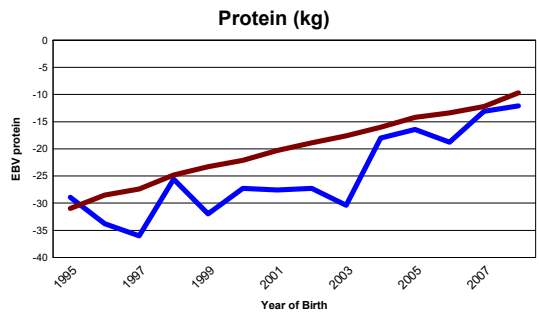
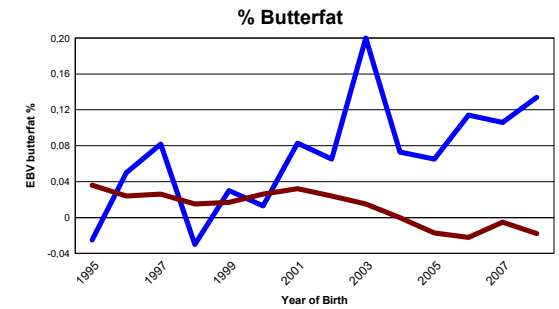
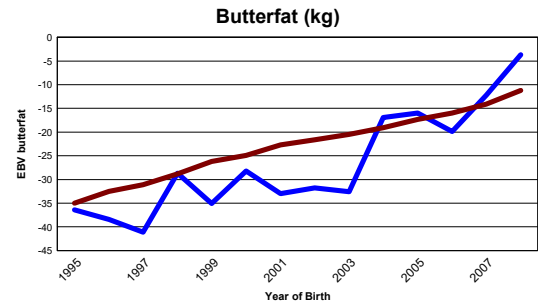
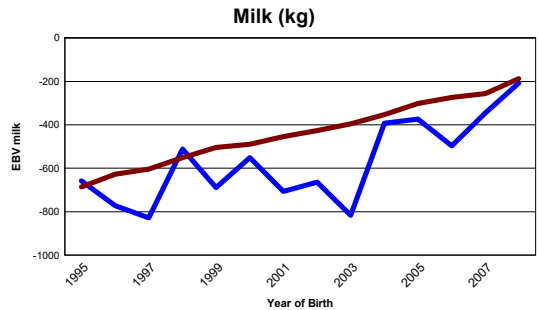


Number of Bulls and Daughters per Country of Sire

Country	Nr of Bulls	Nr of Daughters
DNK	2	2
NZL	2	3
USA	1	5
ZAF	4	9

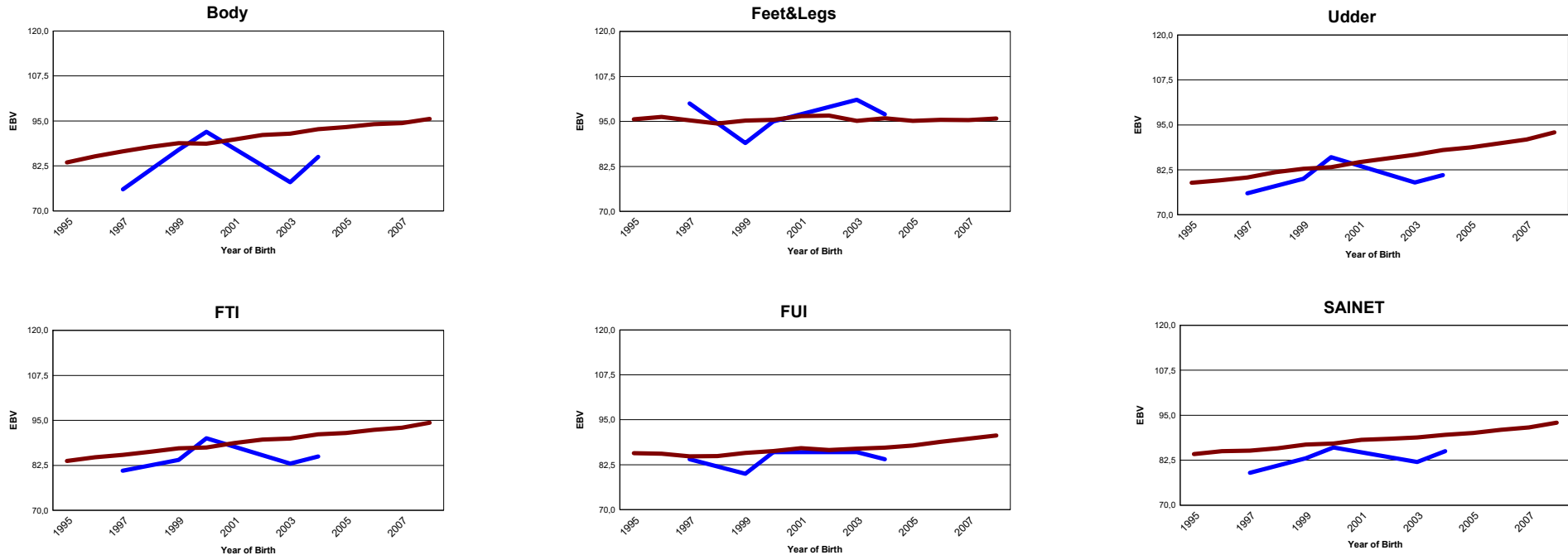
Jersey

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

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

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	Compl Lact			
Active Breed Average:					7.28	102	102	102	101	101	101	101	38	5.2	0.06	2.7	0.02	-4.0	-0.7	103								
OU9826 40195182	BLUEBIRD PITINO CLIMAX	1998 ZAF	3.67		85	83	83	97	88	74	87	95	-448 79 86	-29.9 76 77	-0.11 76 96	-16.5 78 85	0.02 78 104	15.4 59 78	-1.5 41 102	72 47	33 14		259 16 79					
JEJS83 37524832	FORTUNATA CANTONA	1996 ZAF	2.57		95	92	96	102	93	75	80	108	201 91 108	-3.5 90 100	-0.23 90 92	-5.2 91 98	-0.21 91 83	0.5 80 93	4.7 59 90	105 64	129 50		256 18 277					
DGS256 37343522	GLYNTON ADONIS INDUNA	1996 ZAF	1.86		87	90	87	100	85	95	97	96	-350 90 89	-12.5 89 92	0.11 89 105	-9.0 90 94	0.08 90 110	28.0 77 65	-0.8 57 101	90 63	102 37		258 17 228					
61208781	HERMANN'S RED RIBBON-GR-ET	2000 NZL	2.16		95	95	92	94	92	109	114	87	-491 91 84	-8.0 88 96	0.34 88 114	-13.0 91 89	0.11 91 113	M 1.6 80 92	M -7.0 65 113	M 78 62	119 17		242 34 220					
STW9914 42207134	KROMSPRUIT STEFFY'S HELIUM	1999 ZAF	0.82		99	108	97	98	87	133	118	91	-710 96 77	21.7 95 122	1.14 95 146	-12.4 96 90	0.29 96 130	21.7 89 72	-14.5 71 127	98 78	269 62		262 15 608					
46018032	Q MIRAGE-ET	1995 DNK	2.69		89	90	88	102	91	81	96	97	-297 98 91	-3.0 98 101	0.23 98 110	-14.0 98 88	-0.04 98 99	26.0 94 67	2.0 81 95	86 88	548 69		263 14 1284					
47887146	Q ZIK-ET	1998 DNK	1.11		102	108	101	90	106	94	80	112	-587 98 81	17.0 97 118	0.91 97 137	-9.0 98 94	0.26 98 127	-10.0 94 103	-6.0 82 111	111 88	487 57		260 15 1067					
65195372	SOUTH LAND OMEGA CLASSIC - ET	2002 NZL	6.21		95	100	95	101	93	106	108	92	-549 90 82	1.0 87 104	0.56 87 123	-12.0 89 90	0.17 89 119	M 5.2 72 88	M -0.6 50 100	M 110 45	83 8		242 28 204					
44443224	SUNSET CANYON MECCA-ET	1999 USA	3.17		95	95	95	108	91	101	99	102	184 98 108	15.0 97 116	0.08 97 104	-5.0 98 98	-0.20 98 84	17.0 94 76	8.0 80 84	105 85	440 73		258 17 898					

Bull average (herd) :	2.69	94	96	93	99	92	96	98	98	-339	-0.2	0.34	-10.7	0.05	11.7	-1.7	95
Nr bulls (herd):	9																
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	101	102	102
Herd Average :						91	94	87	105	99	81	106	90				93	
1	KROMSPRUIT STEFFY'S	2001	- 2017	2004	- 2004	Bull EBVs :												
	HELIUM	321	6	2	2	Herd Daugtr EBVs :												
	42207134	ZAF	269	6	2	2	All Daughter EBVs :											
2	Q MIRAGE-ET	1998	- 2008	2005	- 2005	Bull EBVs :												
		641	6	1	1	Herd Daugtr EBVs :												
	46018032	DNK	548	6	1	1	All Daughter EBVs :											
3	SUNSET CANYON	2002	- 2013	2009	- 2009	Bull EBVs :												
	MECCA-ET	533	5	5	5	Herd Daugtr EBVs :												
	44443224	USA	440	5	5	5	All Daughter EBVs :											

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 B		Bfat% B		Prot B		Prot% B		SCS B		Calf Int B		HerdLif B e		Tests/lact. 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																											
24114 64862832		CAIRNBROGIE XF 114 A	4.42									-485 48	-13.6 85	0.22 48	-26.0 48	-0.12 91	15.5 31	-9.8 78	84 118	84 22	7	8	8	6	562	5451	244	4.5	186	3.4	KROMSPRUIT STEFFY'S HELIUM								
CA 040117 64863129		CAIRNBROGIE XF 117 A	4.42									-467 48	-4.6 85	0.36 48	-15.7 47	0.05 86	8.7 47	-9.3 107	90 31	8				4	482	5154	227	4.4	188	3.7	KROMSPRUIT STEFFY'S HELIUM								
												Year of Birth : 2005																											
25132 64863095		XF 132 A05	4.52									-511 50	-19.7 84	0.13 48	-19.8 47	0.00 82	19.2 47	-4.2 103	85 29	8	8	7	7	459	4704	208	4.4	168	3.6	GLYNTON ADONIS INDUNA									
25137 64565567		CAIRNBROGIE XF 529	4.52									-20 50	-2.9 101	-0.04 48	-4.6 99	-0.06 48	-3.6 97	-2.7 30	90 17	7	8	7	9	397	5394	245	4.5	195	3.6	FORTUNATA CANTONA									
25148 64863012		XF 26	4.52									-547 48	-31.8 83	-0.05 47	-25.0 99	-0.07 46	19.1 76	-4.3 46	77 96	8	8	8	8	457	4847	218	4.5	171	3.5	BLUEBIRD PITINO CLIMAX									
25161 66512203		XF CLOVER 5067(25161	4.52									-372 51	-26.4 89	-0.12 50	-23.1 96	-0.15 49	15.0 78	-1.2 49	83 88	9	8				4	507	4629	180	3.9	156	3.4	Q MIRAGE-ET							
												Year of Birth : 2006																											
2601 62053442		2601	4.73									-421 42	-15.1 87	0.12 40	-12.6 106	0.07 39	13.5 109	-8.2 14	77 80	8	7	7	7	441	4898	230	4.7	183	3.7	CA 000048						2000			
2625 62472725		2625	4.73									-332 49	-13.2 90	0.07 46	-16.7 104	-0.06 47	8.9 97	-0.5 29	76 84	8	8	8	9	399	5466	258	4.7	191	3.5	HERMANN'S RED RIBBON-GR-ET									
												Year of Birth : 2007																											
2759 65250938		CAIRNBROGIE XF 2759	4.94									-24 41	-10.3 101	-0.16 30	-2.7 94	-0.03 30	10.4 94	-8.1 39	85 115	7	8	7	7	374	4594	231	5.0	178	3.9	CA 050047						2005			
2762 65230120		CAIRNBROGIE XF 2762	4.94									-94 40	-5.1 98	-0.01 37	-8.9 100	-0.09 38	13.0 94	-0.8 18	86 80	7	7	7	8	383	5130	240	4.7	176	3.4	EOL0507						2005			
2774 65228041		CAIRNBROGIE 0774	2.22									-479 37	0.2 85	0.46 36	-11.5 119	0.13 36	2.1 91	-4.0 24	101 107	9	8	8	7	462	4612	225	4.9	168	3.7	Q ZIK-ET CA 050031						2005			
2796 68775089		CAIRNBROGIE XF 2796	4.94									-546 41	-33.2 83	-0.08 37	-24.0 98	-0.05 39	20.6 18	-11.3 73	89 121	9	7				6	398	3879	186	4.8	145	3.7	24100						2004	
												Year of Birth : 2009																											
2904 68776814		CAIRNBROGIE 0903	3.99									-277 51	3.5 92	0.31 44	-10.7 106	0.00 44	10.1 35	-0.9 83	103 24	8	7				6	450	4946	277	5.6	195	4.0	SUNSET CANYON MECCA-ET 2498						2004	
2938 68450477		CAIRNBROGIE 0905	2.51									-366 49	-6.2 89	0.23 42	-18.6 110	-0.08 48	12.9 95	-2.1 33	102 80	8				2	525	3575	173	4.8	127	3.6	SUNSET CANYON MECCA-ET 2435						2004		

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	ICP	Kg	Kg	%	Kg	%	Sire	Dam	Dam								
Regno	Verification											B	Ind	B	Ind	B	Ind	B	Ind	B	Ind	B	e	1	2	3	Lac		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 : 2009																													
2940		CAIRNBROGIE 0906	2.82									-358	-1.4	0.30	-9.4	0.08	8.4	0.6	101	7	8	8	7	355	5473	262	4.8	197	3.6	SOUTH LAND OMEGA CLASSIC - ET		2005									
68450485												49	89	41	102	41	113	48	93	48	110	32	85	17	98	22				25133											
2962		CAIRNBROGIE 0907	9.50									-4	-4.0	-0.07	-7.2	-0.12	19.3	3.2	92	7	6		2	348	3983	190	4.8	148	3.7	SUNSET CANYON MECCA-ET		2005									
68450493												55	101	47	100	47	98	53	96	53	91	37	74	26	93	28				25150											
2974		CAIRNBROGIE 0908	3.99									55	-11.7	-0.24	-14.4	-0.27	15.5	6.1	89	9	8		2	519	5322	234	4.4	177	3.3	SUNSET CANYON MECCA-ET		2004									
68450501												51	103	44	93	44	91	50	88	50	77	35	78	24	87	26				CA 040E52											
2979		CAIRNBROGIE 0909	3.58									184	-2.3	-0.20	-7.6	-0.24	11.0	4.5	94	7	8		6	453	5584	275	4.9	196	3.5	SUNSET CANYON MECCA-ET		2004									
68450519												53	108	46	101	46	93	52	95	52	80	37	82	26	91	27				24116											
2984		CAIRNBROGIE 0911	4.28									-688	-3.7	0.61	-16.8	0.19	16.7	-9.5	110	7	7	6	6	392	4588	247	5.4	182	4.0	SOUTH LAND OMEGA CLASSIC - ET		2004									
68450527												49	78	40	100	40	125	47	85	47	120	30	77	15	118	20				2469											

Average (cow herd): 4.42

Nr of cows (herd): 36670

Cow average (breed): 7.07

Nr cows (breed): 19

-303

-10.6

0.10

-14.5

-0.04

12.4

-3.3

90

101

101

101

100

100

101

101

101

13

2.5

0.03

1.1

0.01

-2.0

-0.4

103

Cows with Most Influence in the Herd

Cows with Most Daughters in Milk and Most Lactations

Daughter EBVs > Dam EBVs
Daughter EBVs < Dam EBVs

Farmnr Regno Byear	Sire Country of Sire	Nr Lact	Tot Dghtrs	Act Dghtrs	BREEDING VALUE- AND SELECTION INDICES									
			Birth Years Total	Birth Years Total	Milk	BFat	Prot	BF%	Prot%	UdHealth	Fert	HLife	EFI	SAINET
			In Milk	In Milk										

Breed Average :
Herd Average :

1

Heifers

Animals sorted on farmersnumber within birth year

*Inbreeding in red is high

Top 10% of the breed Bottom 10% of the breed Above breed average M = MACE EBV G = Genomically enhanced EBV

Heifer					Selection Indices								EBVs, Reliabilities (B) and Indices (Ind)										Pedigree	
Farmnr Regno	Parent Verification	Name	BYear	% In- brding	SAI	CYI	FMI	Body	Udder	F&L	BWC	EFI	Milk B Ind B	Bfat B Ind B	Bfat% B Ind B	Prot B Ind B	Prot% B Ind B	SCS B Ind B	Calf Int B Ind B	Herdlife B Ind B	Sire	Dam BYear		
Active Breed Average:																								
					Year of Birth :																			

Average (heifers in herd)
Nr heifers (herd)
Average (heifers in breed)
Nr heifers (breed)

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

Top 10% of the breed

Bottom 10% of the breed

M = MACE (International) breeding value

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	2759 65250938	CAIRNBROGIE XF 2759	2007	4.94									-24	-10.3	-0.16	-2.7	-0.03	10.4	-8.1	85	41		CA 050047	2005	
2	25137 64565567	CAIRNBROGIE XF 529	2005	4.52									-20	-2.9	-0.04	-4.6	-0.06	-3.6	-2.7	90	50	FORTUNATA CANTONA			
3	2962 68450493	CAIRNBROGIE 0907	2009	9.50									-4	-4.0	-0.07	-7.2	-0.12	19.3	3.2	92	55	SUNSET CANYON MECCA-ET	25150	2005	
4	2979 68450519	CAIRNBROGIE 0909	2009	3.58									184	-2.3	-0.20	-7.6	-0.24	11.0	4.5	94	53	SUNSET CANYON MECCA-ET	24116	2004	
5	2762 65230120	CAIRNBROGIE XF 2762	2007	4.94									-94	-5.1	-0.01	-8.9	-0.09	13.0	-0.8	86	40		EOL0507	2005	
6	2940 68450485	CAIRNBROGIE 0906	2009	2.82									-358	-1.4	0.30	-9.4	0.08	8.4	0.6	101	49	SOUTH LAND OMEGA CLASSIC - ET	25133	2005	
7	2904 68776814	CAIRNBROGIE 0903	2009	3.99									-277	3.5	0.31	-10.7	0.00	10.1	-0.9	103	51	SUNSET CANYON MECCA-ET	2498	2004	
8	2774 65228041	CAIRNBROGIE 0774	2007	2.22									-479	0.2	0.46	-11.5	0.13	2.1	-4.0	101	37	Q ZIK-ET	CA 050031	2005	
9	2601 62053442	2601	2006	4.73									-421	-15.1	0.12	-12.6	0.07	13.5	-8.2	77	42		CA 000048	2000	
10	2974 68450501	CAIRNBROGIE 0908	2009	3.99									55	-11.7	-0.24	-14.4	-0.27	15.5	6.1	89	51	SUNSET CANYON MECCA-ET	CA 040E52	2004	
11	CA 040117 64863129	CAIRNBROGIE XF 117 A	2004	4.42									-467	-4.6	0.36	-15.7	0.05	8.7	-9.3	90	48	KROMSPRUIT STEFFY'S HELIUM			
12	2625 62472725	2625	2006	4.73									-332	-13.2	0.07	-16.7	-0.06	8.9	-0.5	76	49	HERMANN'S RED RIBBON-GR-ET			
13	2984 68450527	CAIRNBROGIE 0911	2009	4.28									-688	-3.7	0.61	-16.8	0.19	16.7	-9.5	110	49	SOUTH LAND OMEGA CLASSIC - ET	2469	2004	
14	2938 68450477	CAIRNBROGIE 0905	2009	2.51									-366	-6.2	0.23	-18.6	-0.08	12.9	-2.1	102	49	SUNSET CANYON MECCA-ET	2435	2004	
15	25132 64863095	XF 132 A05	2005	4.52									-511	-19.7	0.13	-19.8	0.00	19.2	-4.2	85	50	GLYNTON ADONIS INDUNA			
16	25161 66512203	XF CLOVER 5067(25161	2005	4.52									-372	-26.4	-0.12	-23.1	-0.15	15.0	-1.2	83	51	Q MIRAGE-ET			
17	2796 68775089	CAIRNBROGIE XF 2796	2007	4.94									-546	-33.2	-0.08	-24.0	-0.05	20.6	-11.3	89	41		24100	2004	
18	25148 64863012	XF 26	2005	4.52									-547	-31.8	-0.05	-25.0	-0.07	19.1	-4.3	77	48	BLUEBIRD PITINO CLIMAX			
19	24114 64862832	CAIRNBROGIE XF 114 A	2004	4.42									-485	-13.6	0.22	-26.0	-0.12	15.5	-9.8	84	48	KROMSPRUIT STEFFY'S HELIUM			

Logix Conformation and Udder Traits : Bulls

Only sires of classified cows are indicated.

Bull Information		Selection Indices						Conformation Breeding Values										Udder Breeding Values										
Bull Name	SAI	Body	Udder	Feet & Legs	BWC	EFI	B	WH	CW	BD	DS	RA	TW	RLS	RLR	BS	FA	FUA	RUH	RUW	UC	UD	FTP	RTP	TL	B	S.A. daughters/ herds	
								Wither Height	Chest Width	Body Depth	Dairy Strength	Rump	Thurl Width	RearLegs	RearLegs	Bone Structure	Foot Angle	ForeUdder	RearUdder Height	RearUdder Width	Udder Cleft	Udder Depth	Front Teat	Rear Teat	Teat Length			

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
Average																									

:

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
2979	184	2904	3.5	2984	0.61	2759	-2.7	2984	0.19	25137	-3.6	2796	-11.3	2984	110										
2974	55	2774	0.2	2774	0.46	25137	-4.6	2774	0.13	2774	2.1	24114	-9.8	2904	103										
2962	-4	2940	-1.4	CA 040117	0.36	2962	-7.2	2940	0.08	2940	8.4	2984	-9.5	2938	102										
25137	-20	2979	-2.3	2904	0.31	2979	-7.6	2601	0.07	CA 040117	8.7	CA 040117	-9.3	2940	101										
2759	-24	25137	-2.9	2940	0.30	2762	-8.9	CA 040117	0.05	2625	8.9	2601	-8.2	2774	101										
2762	-94	2984	-3.7	2938	0.23	2940	-9.4	2904	0.00	2904	10.1	2759	-8.1	2979	94										
2904	-277	2962	-4.0	24114	0.22	2904	-10.7	25132	0.00	2759	10.4	25148	-4.3	2962	92										
2625	-332	CA 040117	-4.6	25132	0.13	2774	-11.5	2759	-0.03	2979	11.0	25132	-4.2	CA 040117	90										
2940	-358	2762	-5.1	2601	0.12	2601	-12.6	2796	-0.05	2938	12.9	2774	-4.0	25137	90										
2938	-366	2938	-6.2	2625	0.07	2974	-14.4	2625	-0.06	2762	13.0	25137	-2.7	2974	89										

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
2984	-688	2796	-33.2	2974	-0.24	24114	-26.0	24114	-26.00	2796	20.6	2974	6.1	2625	76										
25148	-547	25148	-31.8	2979	-0.20	25148	-25.0	25148	-25.00	2962	19.3	2979	4.5	25148	77										
2796	-546	25161	-26.4	2759	-0.16	2796	-24.0	2796	-24.00	25132	19.2	2962	3.2	2601	77										
25132	-511	25132	-19.7	25161	-0.12	25161	-23.1	25161	-23.10	25148	19.1	2940	0.6	25161	83										
24114	-485	2601	-15.1	2796	-0.08	25132	-19.8	25132	-19.80	2984	16.7	2625	-0.5	24114	84										
2774	-479	24114	-13.6	2962	-0.07	2938	-18.6	2938	-18.60	24114	15.5	2762	-0.8	25132	85										
CA 040117	-467	2625	-13.2	25148	-0.05	2984	-16.8	2984	-16.80	2974	15.5	2904	-0.9	2759	85										
2601	-421	2974	-11.7	25137	-0.04	2625	-16.7	2625	-16.70	25161	15.0	25161	-1.2	2762	86										
25161	-372	2759	-10.3	2762	-0.01	CA 040117	-15.7	CA 040117	-15.70	2601	13.5	2938	-2.1	2974	89										
2938	-366	2938	-6.2	2625	0.07	2974	-14.4	2974	-14.40	2762	13.0	25137	-2.7	2796	89										

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