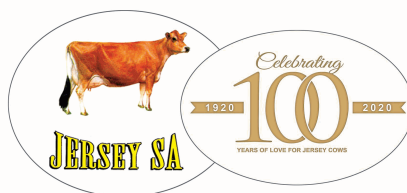




JERSEY GENOMIC BREEDING VALUE REPORT

September 2026



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**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

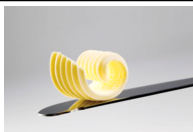
Traits for which breeding values (EBVs) are estimated

Milk (kg)



Milk Production

Butterfat (kg)



Bfat Production

Protein (kg)



Prot Production

Bfat & Prot %



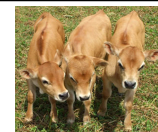
Solid percentages

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 Hoeffelling	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

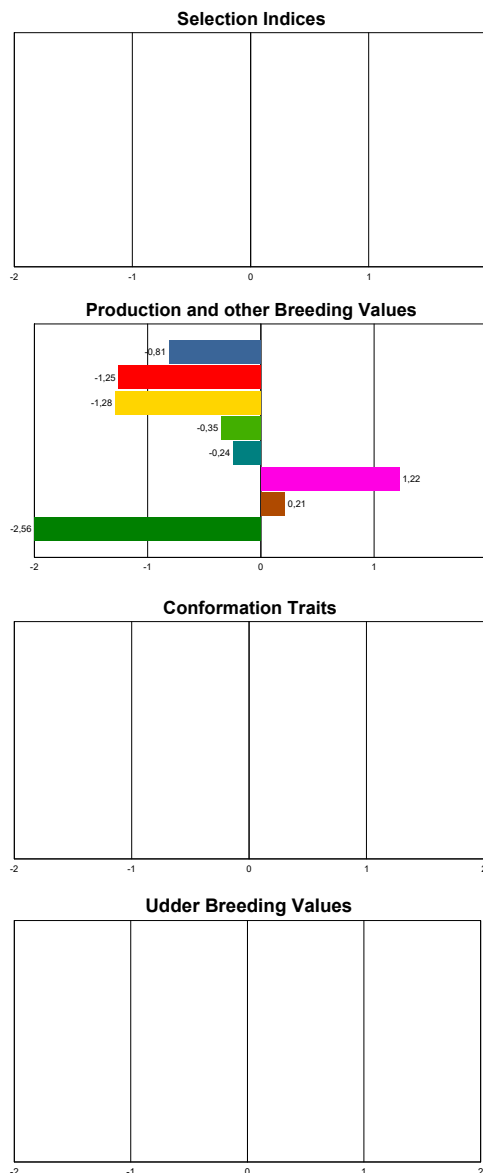
Base Year: 2020

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.

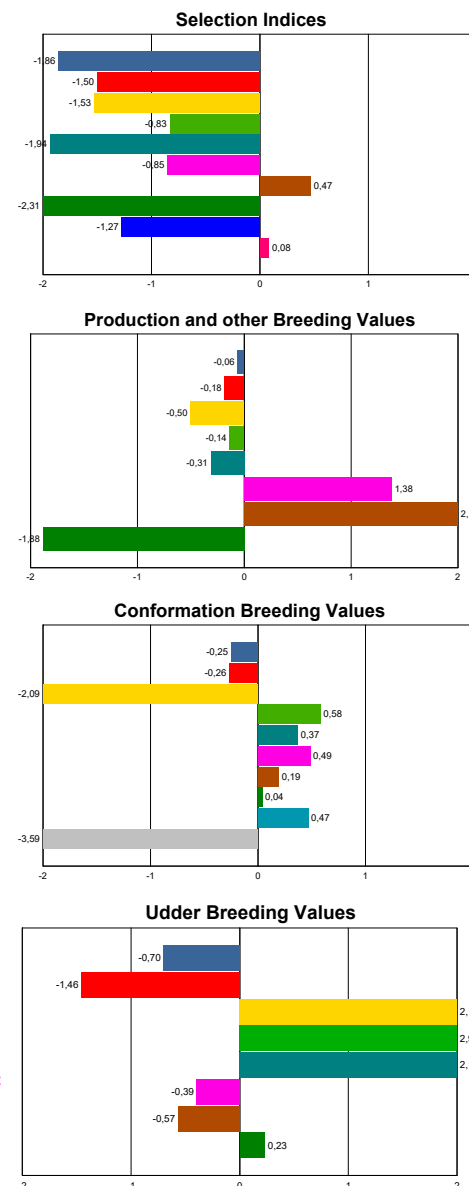
Note : The higher the Body Weight Composite (BWC), the heavier the cow

Cows with measurements



Sires of Cows

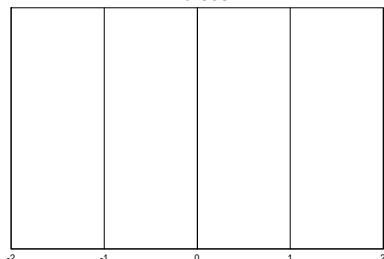
SAINET
CYI (Cheese Yield Index)
FUI (Func. Udder Index)
FTI (Func. Type Index)
FMI (Fluid Milk Index)
Body
Udder
Feet & Legs
Body Weight Composite
Efficiency Index



Genetic Windows

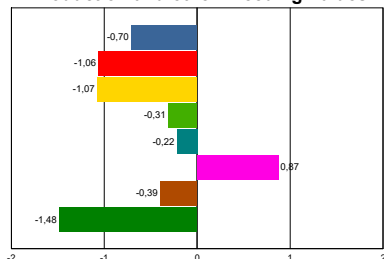
Heifers

Indices

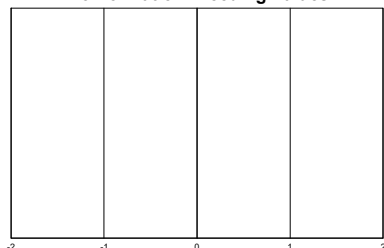


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FUI (Func. Udder Index)
FTI (Func. Type Index)
FMI (Fluid Milk Index)
Body
Udder
Feet & Legs
Body Weight Composite
Efficiency Index

Production and other Breeding Values

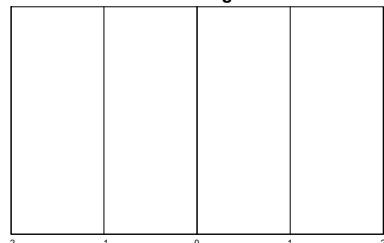


Conformation Breeding Values



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

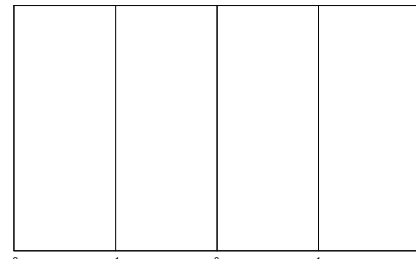
Udder Breeding Values



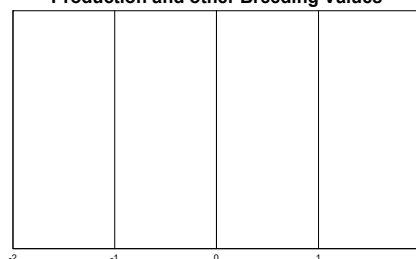
UD: Udder Depth
FUA: Fore Udder Att.
RUH: Rear Udder Height
RUW: Rear Udder Width
UC: Udder Cleft
FTP: Front Teat placemnt
RTP: Rear Teat Placemnt
TL: Teat Length

Sires of Heifers

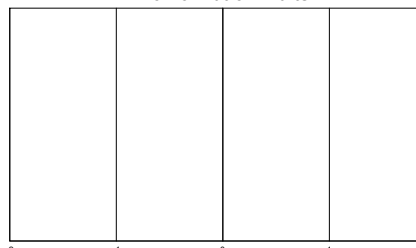
Selection Indices



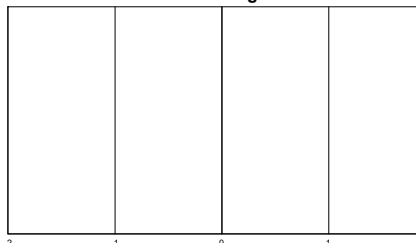
Production and other Breeding Values



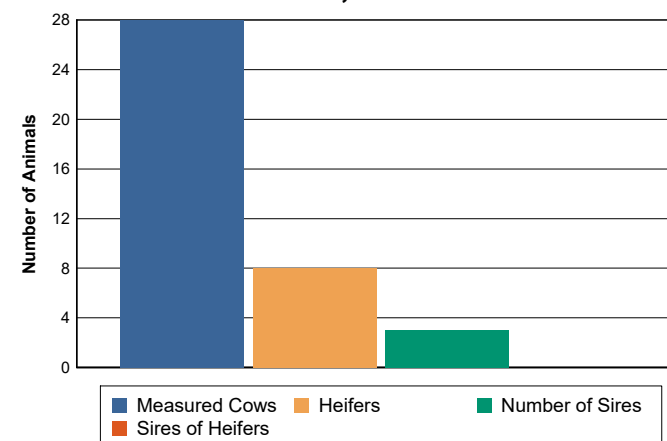
Conformation Traits



Udder Breeding Values



Number of cows, heifers and sires



Nr of Cows per Age Group

	Heifers	Lac 1	Lac 2	Lac 3	Lac 4+
Number	8	7	4	6	11

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	36	36670	28	20759	8	15911
Avg. Inbreeding	5.52	7.28	5.43	7.07	5.80	7.56
Nr >6.25% inbred	2	23780	2	12397		11383
Breeding Values (EBVs)						
Milk	-204	38	-211	13	-178	69
Butterfat	-11.8	5.2	-12.4	2.5	-9.5	8.6
Protein	-9.1	2.7	-9.5	1.1	-7.6	4.7
Butterfat %	-0.01	0.06	-0.02	0.03	-0.01	0.09
Protein %	-0.02	0.02	-0.02	0.01	-0.01	0.04
Somatic Cells	10.40	-3.96	11.38	-2.02	6.99	-6.48
Calf Interval	-0.31	-0.71	0.33	-0.38	-2.55	-1.13
Herdlife	80.4	103.2	78.0	103.4	88.6	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	3	1248
Avg. Inbreeding	6.68	7.65
Nr >6.25% inbred	2	935
Breeding Values (EBVs)		
Milk	20	98
Butterfat	-1.7	5.6
Protein	1.0	4.2
Butterfat %	-0.04	0.02
Protein %	0.01	0.01
Somatic Cells	13.33	-0.47
Calf Interval	9.33	0.04
Herdlife	85	102.5
Selection Indices		
SAINET	94.0	101.7
CYI	93.6	102.3
FMI	92.9	101.9
FTI	98.0	101.4
FUI	92.3	100.8
Body	97.0	101.6
Udder	103.3	101.5
Feet & Legs	87.0	101.2
BWC	96.9	100.9
EFI	101.7	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 - 2018	5.73	0.17
Recommendations:	< 6.25	< 0.1 - 0.2

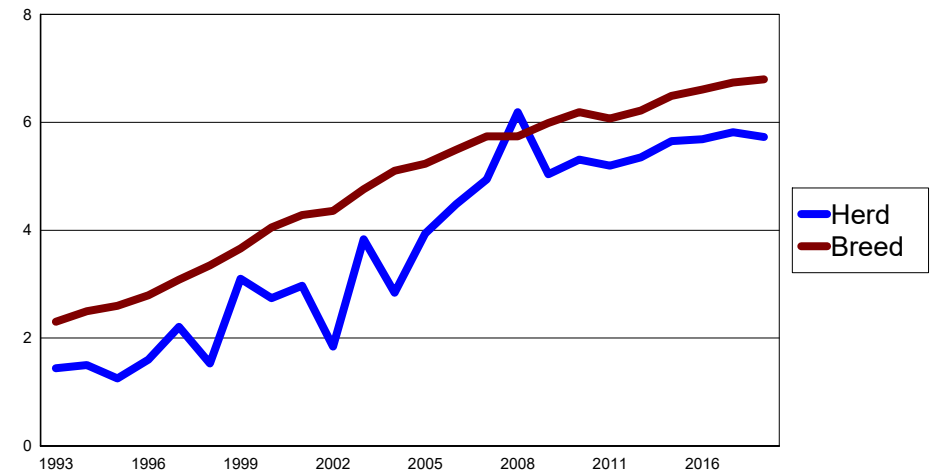
* Of the last birth year

Pedigree Information

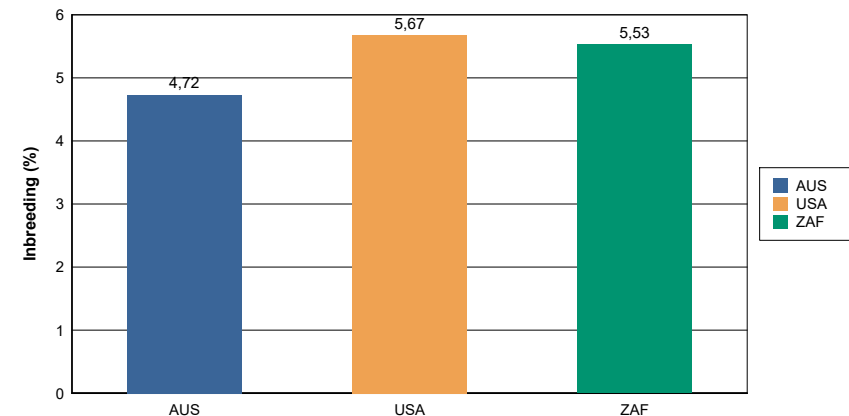
	Number	%
Known Sires	18	50
Known Dams	26	72

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

Inbreeding: Herd vs Breed

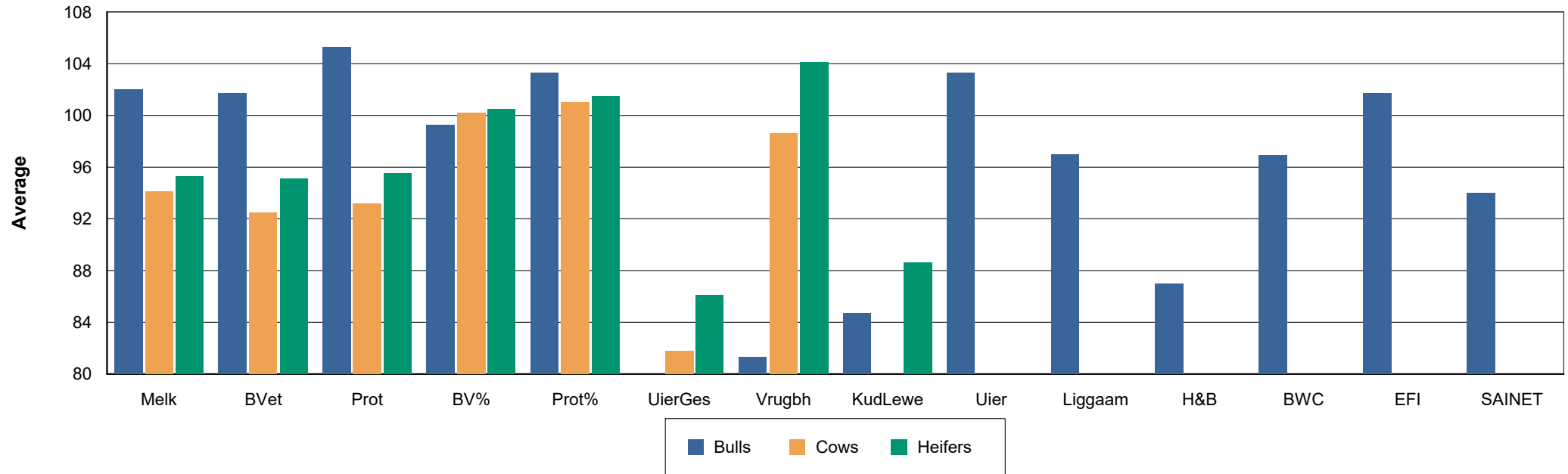


Average Inbreeding per Country of Sire



Jersey

Genetic Levels of the Herd



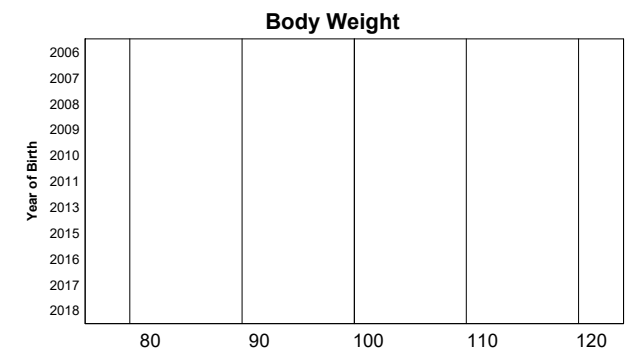
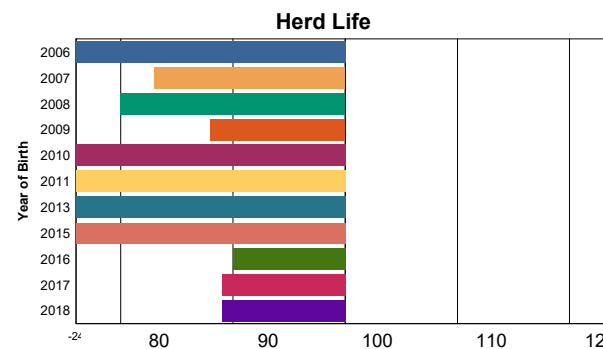
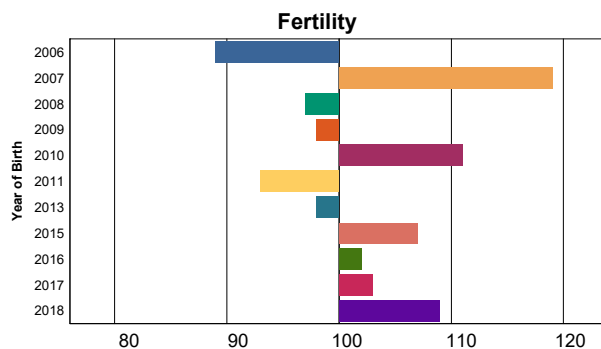
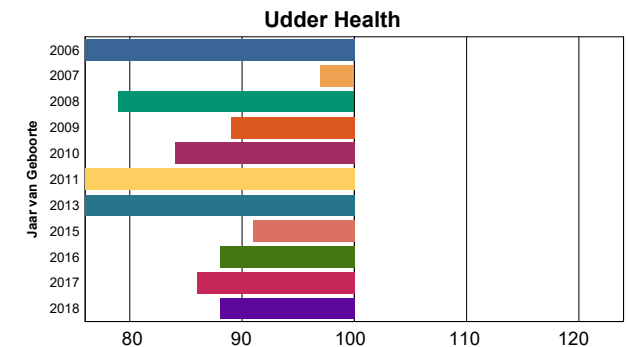
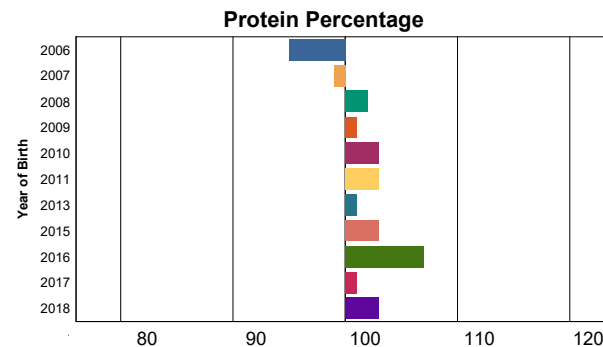
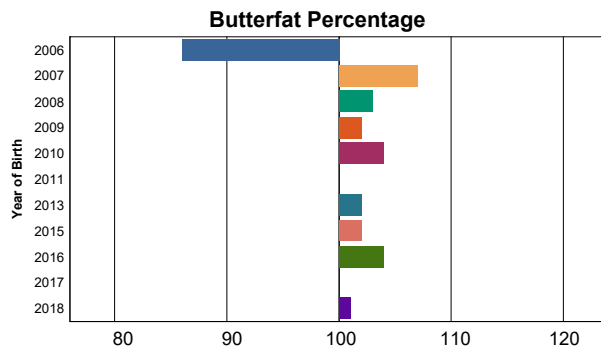
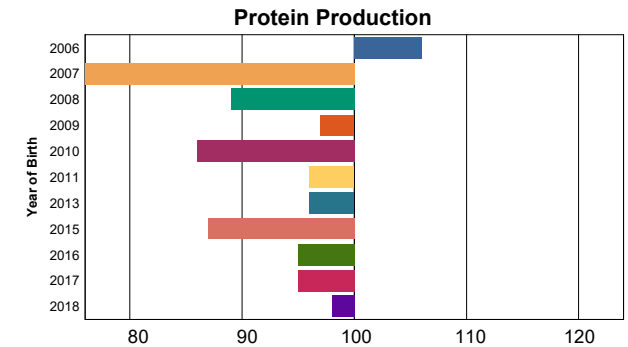
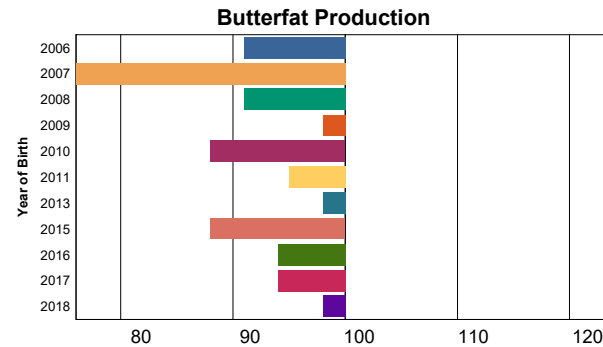
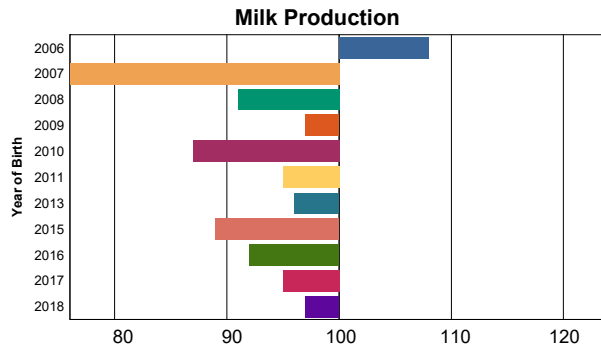
Jersey

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	95,3	103,8	91,0	102,4	93,0	102,8	98,2	101,7	94,4	101,1
Butterfat	95,1	110,5	92,1	108,5	94,5	106,3	95,5	104,1	90,4	102,9
Protein	95,5	109,2	90,9	107,0	92,8	106,6	96,0	104,8	93,4	103,2
BF%	100,5	104,2	103,0	104,1	102,3	102,0	98,0	101,4	98,8	101,2
Prot%	101,5	105,9	103,1	105,3	102,3	104,2	97,3	103,7	101,1	102,6
UdderHealth	86,1	99,6	85,6	98,4	81,3	96,5	81,0	94,3	79,9	92,6
Fertility	104,1	101,4	104,4	100,4	97,3	99,2	97,0	99,4	96,3	100,4
Herdlife	88,6	103,1	71,3	102,0	71,0	102,3	80,3	103,9	83,6	104,7
BWC		101,9		102,0		101,4		100,7		99,5
EFI		102,9		101,3		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

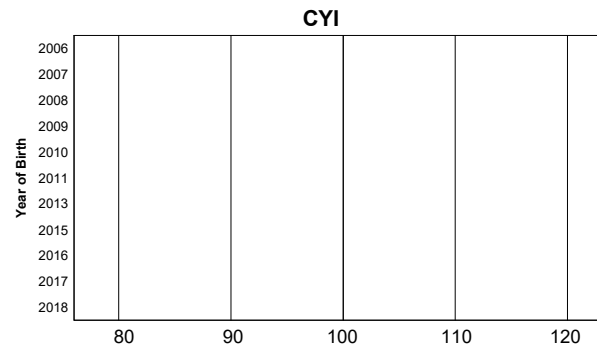
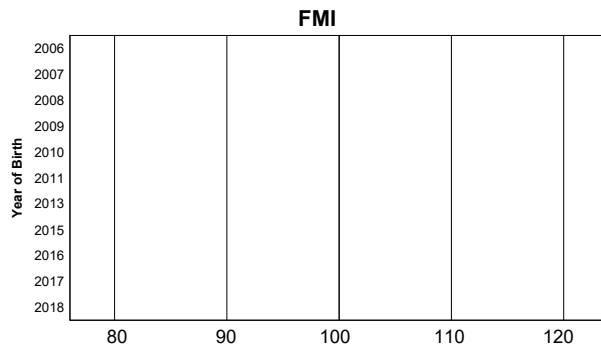
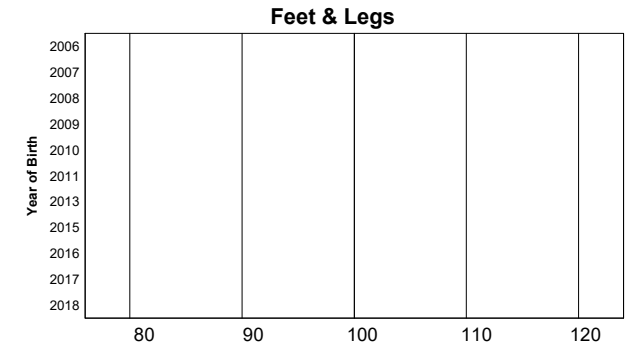
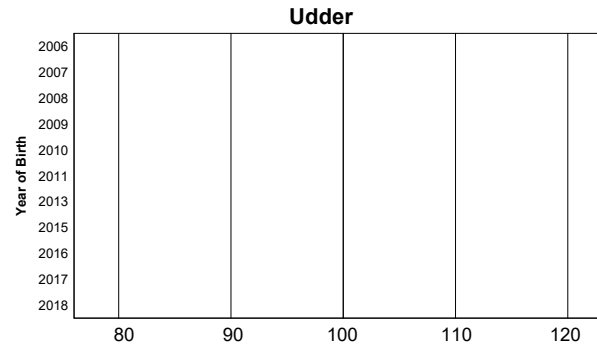
Jersey

Average Performance of Active Cows per Year of Birth

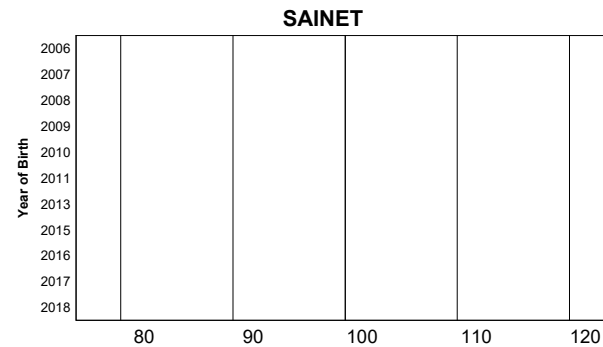


Jersey

Average Performance of Active Cows per Year of Birth

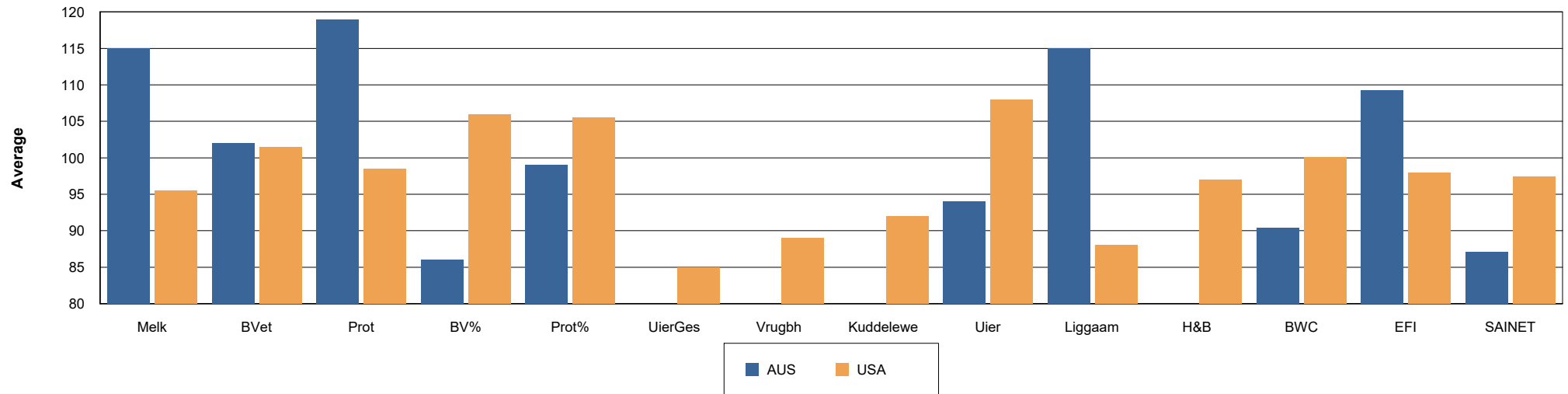


Year of Birth	Number
2006	4
2007	1
2008	8
2009	6
2010	2
2011	1
2013	3
2015	1
2016	2
2017	6
2018	2



Jersey

Average Genetic Levels per Country of Sire

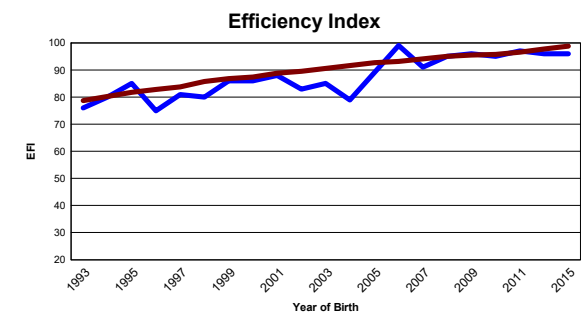
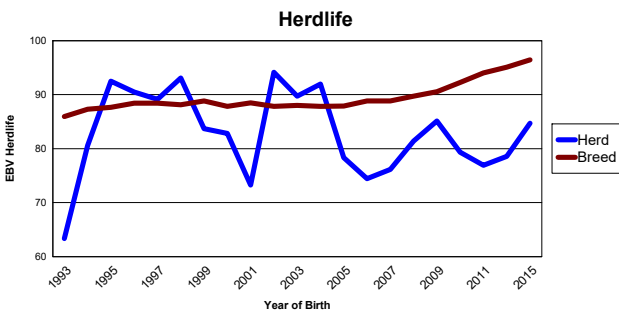
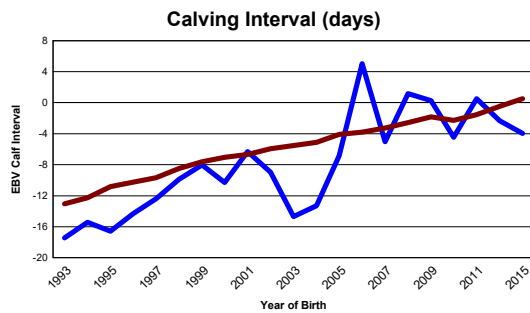
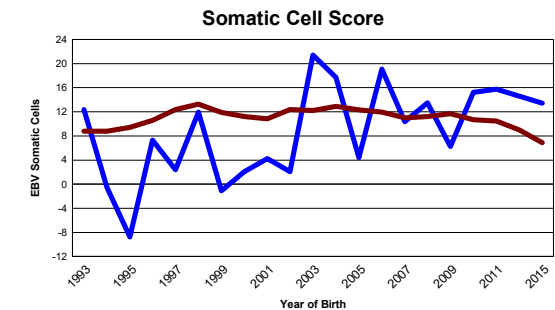
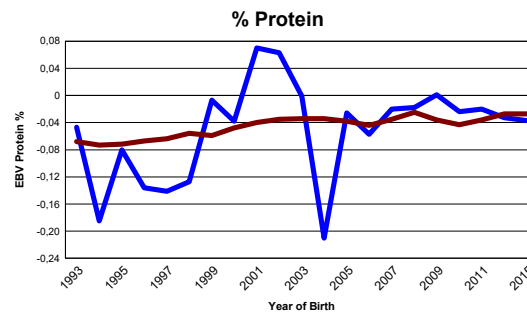
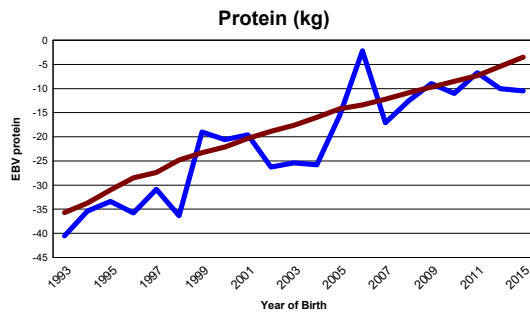
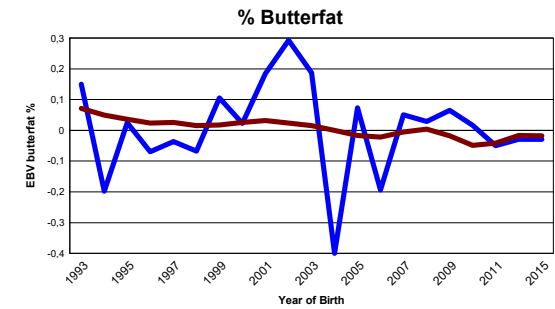
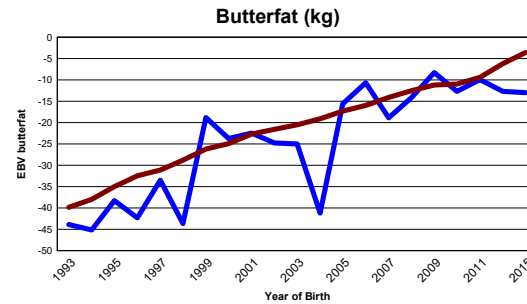
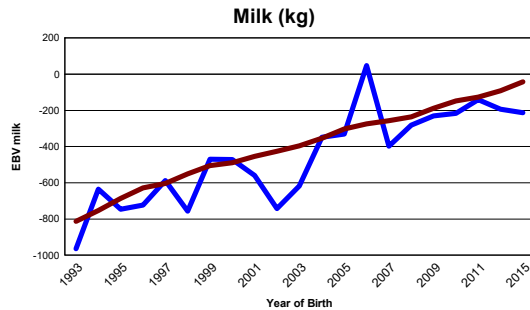


Number of Bulls and Daughters per Country of Sire

Country	Nr of Bulls	Nr of Daughters
AUS	1	4
USA	2	14

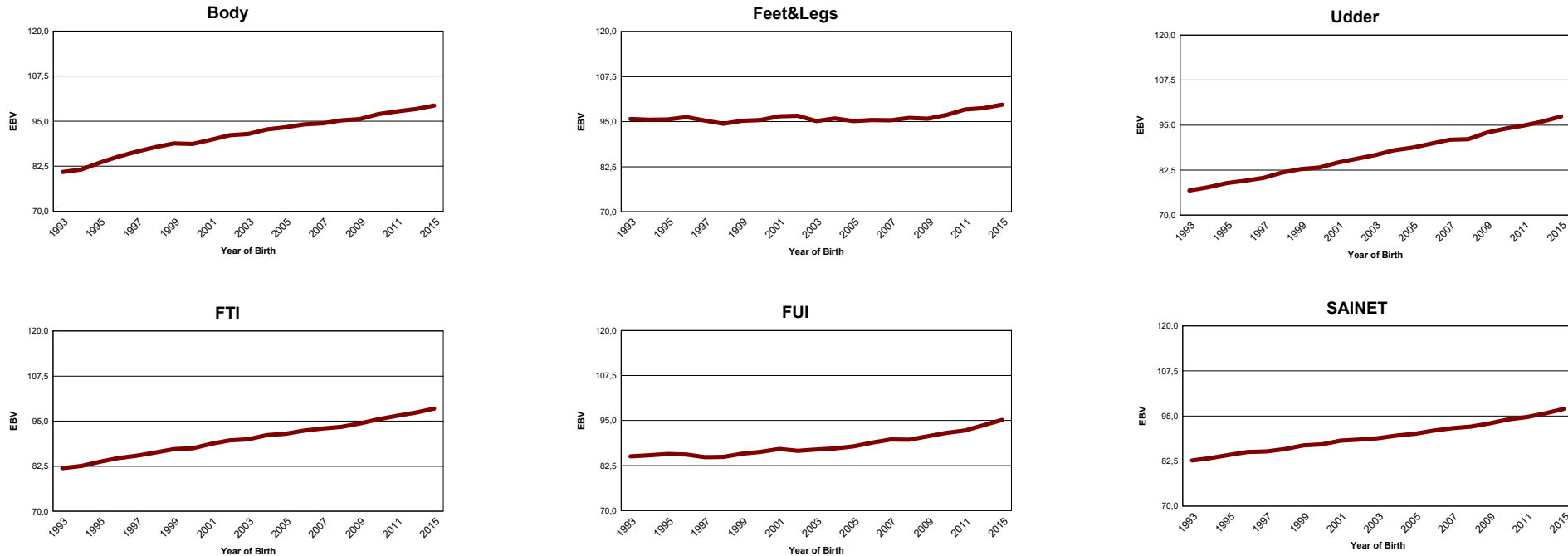
Jersey

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	EBV SAINET
	Milk	Solids									
2013	6968	6967	6967	-92	-6.2	-5.4	-0.02	-0.03	9.0	-0.5	95.1
2015	6475	6461	6461	-42	-3.6	-3.5	-0.02	-0.03	6.9	0.5	96.4

Cows measured in Herd											
Birth Year	Number of Cows		EBV Milk	EBV Bfat	EBV Prot	EBV Bfat%	EBV Prot%	EBV Somatic	EBV Calfint	EBV Herdlife	EBV SAINET
	Milk	Solids									
2013	11	11	11	-193	-12.7	-10.0	-0.03	-0.03	14.6	-2.3	78.6
2015	7	7	7	-212	-13.0	-10.5	-0.03	-0.04	13.4	-4.0	84.7

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	90.4	-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 Dghts. Hrs.	Lakt.<150dae Dghts Hrs.	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								
47559166	CLAYDON PARK FLOWER POWER-ET		1996 AUS	5.27	87	87	88	115	94	67	90	109	G 401 799 115	GZ -1.0 99 102	-0.36 99 86	GZ 13.0 99 119	-0.04 99 99	GZ 24.0 97 69	GZ 17.0 89 66	GZ 70 92	309 46		262 14	638				
61603031	SC GOLD DUST PARAMOUNT IATOLA		2001 USA	6.79	99	98	98	85	111	92	105	97	-16 99 101	2.0 99 105	0.05 99 103	-2.0 99 102	-0.02 99 101	2.0 99 91	6.0 95 88	95	1959 136		256 18	4019				
61603064	WOODSTOCK LEXINGTON-ET		2001 USA	7.97	96	96	93	91	105	102	95	99	-326 99 90	-6.0 98 98	0.20 98 109	-8.0 99 95	0.08 99 110	14.0 97 79	5.0 88 90	89 92	806 93		263 14	1753				

Bull average (herd) :	6.68	94	94	93	97	103	87	97	102	20	-1.7	-0.04	1.0	0.01	13.3	9.3	85
Nr bulls (herd):	3																
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 :							96	94	95	100	100	83	101	82			96	
1	CLAYDON PARK FLOWER POWER-ET	1998	- 2011	2005	- 2006	Bull EBVs :												
		365	21	5	4	Herd Daugtr EBVs :												
		47559166	AUS	309	19	5	4	All Daughter EBVs :										
2	WOODSTOCK LEXINGTON-ET	2006	- 2015	2008	- 2008	Bull EBVs :												
		1004	18	8	8	Herd Daugtr EBVs :												
		61603064	USA	806	18	8	8	All Daughter EBVs :										
3	SC GOLD DUST PARAMOUNT IATOLA	2001	- 2016	2007	- 2016	Bull EBVs :												
		2420	15	26	6	Herd Daugtr EBVs :												
		61603031	USA	1959	15	26	6	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		Bfat		Bfat%		Prot		Prot%		SCS		Calf Int		HerdLif	Tests/lact.			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 : 2006																										
6107 64650203		6107	4.73									-494 49	-17.1 84	0.16 46	-12.3 47	0.12 107	19.5 114	1.0 30	76 74	5 7	4	389	5565	269	4.8	219	3.9					CLAYDON PARK FLOWER POWER-ET						
6115 64623440		6115	4.73									664 49	-2.6 124	-0.57 48	17.9 78	-0.12 47	22.9 91	12.3 31	74 70	7 6	10	407	10530	414	3.9	369	3.5					CLAYDON PARK FLOWER POWER-ET						
614 64650872		6014	4.73									101 50	-23.9 105	-0.48 48	-5.3 82	-0.15 48	21.8 88	2.7 30	70 71	5 7	3	361	6914	279	4.0	240	3.5					CLAYDON PARK FLOWER POWER-ET						
697 64650500		6097	4.73									475 50	-13.9 118	-0.60 48	7.1 77	-0.18 48	18.4 86	4.3 30	76 75	7 5 7	6	360	8440	345	4.1	301	3.6					CLAYDON PARK FLOWER POWER-ET						
												Year of Birth : 2007																										
709 66548934		7009	4.94									-892 41	-39.5 71	0.15 40	-37.3 107	-0.04 39	-4.1 99	-10.4 17	83 97	5 8 7	5	378	4890	236	4.8	180	3.7					0510					2005	
												Year of Birth : 2008																										
8013 70536230		8013	4.94									-345 49	-19.6 90	-0.03 44	-14.5 100	-0.02 49	3.8 101	0.1 32	71 89	8 7	2	364	5633	273	4.9	229	4.1					WOODSTOCK LEXINGTON-ET						
802 70535349		8002	4.52									-827 50	-27.3 73	0.31 45	-26.4 113	0.11 49	1.2 113	-5.2 33	84 92	7 6	5	382	4974	269	5.4	214	4.3					WOODSTOCK LEXINGTON-ET 0517				2005		
8097 70552807		8097	4.94									-297 47	-6.5 91	0.15 47	-12.0 107	-0.01 47	13.9 102	-0.6 32	71 79	7 7	2	360	6156	307	5.0	244	4.0					WOODSTOCK LEXINGTON-ET						
8106 70552856		8106	4.94									-560 49	-30.7 82	-0.02 48	-26.2 100	-0.08 49	20.0 95	-2.3 32	86 73	8 7 7	5	384	6260	306	4.9	236	3.8					WOODSTOCK LEXINGTON-ET						
8136 70553052		8136	4.94									-563 49	-25.0 82	0.08 47	-20.3 104	0.03 48	9.5 105	-2.0 32	86 84	8 6 7	5	390	5758	289	5.0	231	4.0					WOODSTOCK LEXINGTON-ET						
8160 70534573		8160	4.94									-144 49	-4.9 96	0.04 48	-5.7 102	0.00 49	10.2 103	0.9 32	71 83	8 7	2	381	6482	305	4.7	250	3.9					WOODSTOCK LEXINGTON-ET						
834 70533997		8034	9.77									-302 55	6.8 91	0.38 53	-2.2 109	0.17 54	34.1 119	4.3 38	85 59	7 7 6	5	372	6451	324	5.0	264	4.1					WOODSTOCK LEXINGTON-ET 6118				2006		
843 70534078		8043	9.77									509 50	-4.7 119	-0.49 43	4.7 81	-0.23 49	18.1 109	13.0 81	85 36	7 7 5	4	381	6637	293	4.4	248	3.7					WOODSTOCK LEXINGTON-ET 645				2006		
												Year of Birth : 2009																										
9024 70581335		9024	4.94									-136 53	-2.2 97	0.08 46	-8.2 104	-0.05 52	6.2 95	2.3 87	75 26	7	1	0	5509	257	4.7	201	3.7					SC GOLD DUST PARAMOUNT IATOLA 736				2007		
9111 70580568		9111	4.94									53 53	3.2 103	0.00 48	0.0 101	-0.03 52	2.3 104	0.1 35	88 91	6 4	3	379	6091	302	5.0	233	3.8					SC GOLD DUST PARAMOUNT IATOLA 746				2007		

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 Ind	Prot B Ind	Prot% B Ind	SCS B Ind	Calf Int B Ind	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 : 2009																						
941 70581301		9041	4.94									-236 53	-7.6 93	0.08 45	-10.4 104	-0.02 52	9.1 92	2.3 52	89 101	6 6		3	404	5361	256	4.8	202	3.8	SC GOLD DUST PARAMOUNT IATOLA 7023	2007				
954 70581632		9054	5.13									-249 48	-20.2 93	-0.12 44	-14.5 86	-0.08 44	-0.1 96	-1.7 47	88 88	7 6		3	382	4762	238	5.0	180	3.8	SC GOLD DUST PARAMOUNT IATOLA					
972 70581749		9072	4.94									-217 48	-3.2 94	0.13 41	-5.8 100	0.04 41	7.7 106	-1.2 47	94 97	6 8		4	382	6406	299	4.7	240	3.7	SC GOLD DUST PARAMOUNT IATOLA 778	2007				
980 70581822		9080	5.81									-41 54	-5.6 100	-0.07 53	-1.1 98	0.01 53	-2.0 103	2.9 39	91 94	6 7		4	374	6378	285	4.5	245	3.8	SC GOLD DUST PARAMOUNT IATOLA 6068	2006				
												Year of Birth : 2010																						
137 74973330		137	5.31									-148 10	-6.1 96	0.02 9	-6.7 98	-0.01 9	6.5 102	-3.0 4	54 87	6		1	0	5603	249	4.4	189	3.4		2007				
99 74953415		99	5.31									-677 9	-30.1 78	0.10 9	-25.9 105	0.01 9	13.2 103	-9.0 4	62 80			1	0	4368	230	5.3	149	3.4		2007				
												Year of Birth : 2011																						
1120 77215457		1120	5.20									-188 13	-9.9 95	-0.01 13	-7.2 100	0.00 13	18.8 96	3.0 13	71 74	4		2	362	7813	323	4.1	270	3.5		2009				
												Year of Birth : 2013																						
3142 81221301		3142	5.35									-352 42	7.1 89	0.44 36	-3.7 109	0.18 38	17.2 119	6.5 16	72 76	7 6 7		3	439	6096	299	4.9	223	3.7		2006				
3156 81220220		3156	5.35									-245 12	-11.7 93	0.01 11	-9.6 101	0.00 12	14.1 103	-2.1 8	60 79	7		1	0	5103	234	4.6	183	3.6		2009				
383 81270985		383	5.35									134 10	-13.4 106	-0.34 9	-8.7 87	-0.23 9	22.1 81	-2.3 3	75 71	6		3	439	8253	326	4.0	279	3.4		2010				
												Year of Birth : 2015																						
5267 85134302		5267	5.65									-369 10	-17.1 89	0.04 9	-14.6 88	0.00 9	2.1 102	-4.0 4	69 91			1	0	5321	231	4.3	189	3.5		2007				
												Year of Birth : 2016																						
6231 87070207		166231	5.69									-286 10	-6.0 92	0.15 9	-6.4 97	0.08 9	6.3 110	-1.7 3	87 103			1	0	5839	272	4.7	225	3.9		2013				
6238 87070587		166238	5.69									-269 12	-15.5 92	-0.03 12	-10.1 100	0.00 12	5.6 103	-0.9 8	92 88			1	0	5104	236	4.6	189	3.7		2008				

Average (cow herd):	5.43									-211	-12.4	-0.02	-9.5	-0.02	11.4	0.3	78
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):	28																

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		BREEDING VALUE- AND SELECTION INDICES									
			Birth Years											
			Birth Years Total In Milk	Act Dghtrs Birth Years Total In Milk										

Breed Average :
Herd Average :

1						Cow EBVi:								
						Dghtr EBVi:								

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:				7.28	102	102	102	101	101	101	101	101	38	5.2	0.06	2.7	0.02	-4.0	-0.7	103.2										
					Year of Birth :								2017																	
177112 87071577	177112		5.82										-445 8	-22.3 86	0.02 7	-18.2 83	-0.02 7	14.3 79	-5.1 109	92							554 2015			
177160 87073250	177160		5.82										167 3	-9.2 107	-0.30 3	-2.1 89	-0.14 102	2.0 91	6.5 87	87							3129 2013			
177347 87084570	177347		5.82										-134 1	-7.6 97	-0.02 1	-4.8 100	0.01 98	2.3 103	-2.2 91	88							738 2007			
177353 87084612	177353		5.82										-94 1	-7.4 98	-0.05 1	-4.7 99	-0.02 99	5.7 101	-1.8 87	91							5232 2015			
17762 87067195	17762		5.82										-458 10	-11.8 86	0.21 7	-12.6 109	0.09 90	15.2 78	-4.2 107	89							315 2013			
17768 87067252	17768		5.82										-180 9	-5.2 95	0.06 8	-7.4 103	-0.01 96	5.0 88	-3.6 106	85							5233 2015			
					Year of Birth :								2018																	
188156 87076147	188156		5.73										-180 9	-5.2 95	0.06 8	-7.4 103	-0.01 96	5.0 88	-3.6 106	85							5233 2015			
188168 87075545	188168		5.73										-101 8	-7.3 98	-0.04 7	-3.6 99	0.00 100	6.4 87	-6.4 112	92							5109 2015			

Average (heifers in herd Nr heifers (herd)	5.80 8												-178	-9.5	-0.01	-7.6	-0.01	7.0	-2.6	88.6		
Average (heifers in breed) Nr heifers (breed)	7.56 15911	104	104	104	102	102	102	102	103	69	8.6	0.09	4.7	0.04	-6.5	-1.1	103.1					

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	6115 64623440	6115	2006	4.73									664	-2.6	-0.57	17.9	-0.12	22.9	12.3	74	49	CLAYDON PARK FLOWER POWER-ET			
2	697 64650500	6097	2006	4.73									475	-13.9	-0.60	7.1	-0.18	18.4	4.3	76	50	CLAYDON PARK FLOWER POWER-ET			
3	843 70534078	8043	2008	9.77									509	-4.7	-0.49	4.7	-0.23	18.1	13.0	85	50	WOODSTOCK LEXINGTON-ET	645	2006	
4	9111 70580568	9111	2009	4.94									53	3.2	0.00	0.0	-0.03	2.3	0.1	88	53	SC GOLD DUST PARAMOUNT IATOLA	746	2007	
5	980 70581822	9080	2009	5.81									-41	-5.6	-0.07	-1.1	0.01	-2.0	2.9	91	54	SC GOLD DUST PARAMOUNT IATOLA	6068	2006	
6	177160 87073250	177160	2017	5.82									167	-9.2	-0.30	-2.1	-0.14	2.0	6.5	87	3		3129	2013	
7	834 70533997	8034	2008	9.77									-302	6.8	0.38	-2.2	0.17	34.1	4.3	85	55	WOODSTOCK LEXINGTON-ET	6118	2006	
8	188168 87075545	188168	2018	5.73									-101	-7.3	-0.04	-3.6	0.00	6.4	-6.4	92	8		5109	2015	
9	3142 81221301	3142	2013	5.35									-352	7.1	0.44	-3.7	0.18	17.2	6.5	72	42		657	2006	
10	177353 87084612	177353	2017	5.82									-94	-7.4	-0.05	-4.7	-0.02	5.7	-1.8	91	1		5232	2015	
11	177347 87084570	177347	2017	5.82									-134	-7.6	-0.02	-4.8	0.01	2.3	-2.2	88	1		738	2007	
12	614 64650872	6014	2006	4.73									101	-23.9	-0.48	-5.3	-0.15	21.8	2.7	70	50	CLAYDON PARK FLOWER POWER-ET			
13	8160 70534573	8160	2008	4.94									-144	-4.9	0.04	-5.7	0.00	10.2	0.9	71	49	WOODSTOCK LEXINGTON-ET			
14	972 70581749	9072	2009	4.94									-217	-3.2	0.13	-5.8	0.04	7.7	-1.2	94	48	SC GOLD DUST PARAMOUNT IATOLA	778	2007	
15	6231 87070207	166231	2016	5.69									-286	-6.0	0.15	-6.4	0.08	6.3	-1.7	87	10		371	2013	
16	137 74973330	137	2010	5.31									-148	-6.1	0.02	-6.7	-0.01	6.5	-3.0	54	10		7020	2007	
17	1120 77215457	1120	2011	5.20									-188	-9.9	-0.01	-7.2	0.00	18.8	3.0	71	13		948	2009	
18	188156 87076147	188156	2018	5.73									-180	-5.2	0.06	-7.4	-0.01	5.0	-3.6	85	9		5233	2015	
19	17768 87067252	17768	2017	5.82									-180	-5.2	0.06	-7.4	-0.01	5.0	-3.6	85	9		5233	2015	
20	9024 70581335	9024	2009	4.94									-136	-2.2	0.08	-8.2	-0.05	6.2	2.3	75	53	SC GOLD DUST PARAMOUNT IATOLA	736	2007	
21	383 81270985	383	2013	5.35									134	-13.4	-0.34	-8.7	-0.23	22.1	-2.3	75	10		124	2010	
22	3156 81220220	3156	2013	5.35									-245	-11.7	0.01	-9.6	0.00	14.1	-2.1	60	12		9117	2009	
23	6238 87070587	166238	2016	5.69									-269	-15.5	-0.03	-10.1	0.00	5.6	-0.9	92	12		8185	2008	
24	941 70581301	9041	2009	4.94									-236	-7.6	0.08	-10.4	-0.02	9.1	2.3	89	53	SC GOLD DUST PARAMOUNT IATOLA	7023	2007	
25	8097 70552807	8097	2008	4.94									-297	-6.5	0.15	-12.0	-0.01	13.9	-0.6	71	47	WOODSTOCK LEXINGTON-ET			

Selection List

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Top 25% of the herd
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Above breed average

Top 10% of the breed

Bottom 10% of the breed

M = MACE (International) breeding value

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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
26	6107 64650203	6107	2006	4.73									-494	-17.1	0.16	-12.3	0.12	19.5	1.0	76	49	CLAYDON PARK FLOWER POWER-ET			
27	17762 87067195	17762	2017	5.82									-458	-11.8	0.21	-12.6	0.09	15.2	-4.2	89	10			315	2013
28	954 70581632	9054	2009	5.13									-249	-20.2	-0.12	-14.5	-0.08	-0.1	-1.7	88	48	SC GOLD DUST PARAMOUNT IATOLA			
29	8013 70536230	8013	2008	4.94									-345	-19.6	-0.03	-14.5	-0.02	3.8	0.1	71	49	WOODSTOCK LEXINGTON-ET			
30	5267 85134302	5267	2015	5.65									-369	-17.1	0.04	-14.6	0.00	2.1	-4.0	69	10			790	2007
31	177112 87071577	177112	2017	5.82									-445	-22.3	0.02	-18.2	-0.02	14.3	-5.1	92	8			554	2015
32	8136 70553052	8136	2008	4.94									-563	-25.0	0.08	-20.3	0.03	9.5	-2.0	86	49	WOODSTOCK LEXINGTON-ET			
33	99 74953415	99	2010	5.31									-677	-30.1	0.10	-25.9	0.01	13.2	-9.0	62	9			745	2007
34	8106 70552856	8106	2008	4.94									-560	-30.7	-0.02	-26.2	-0.08	20.0	-2.3	86	49	WOODSTOCK LEXINGTON-ET			
35	802 70535349	8002	2008	4.52									-827	-27.3	0.31	-26.4	0.11	1.2	-5.2	84	50	WOODSTOCK LEXINGTON-ET		0517	2005
36	709 66548934	7009	2007	4.94									-892	-39.5	0.15	-37.3	-0.04	-4.1	-10.4	83	41			0510	2005

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 Wither Height	CW Chest Width	BD Body Depth	DS Dairy Strength	RA Rump	TW Thurl Width	RLS RearLegs	RLR RearLegs	BS Bone Structure	FA Foot Angle	FUA ForeUdder	RUH RearUdder Height	RUW RearUdder Width	UC Udder Cleft	UD Udder Depth	FTP Front Teat	RTP Rear Teat	TL Teat Length	B	S.A. daughters/ herds	

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 Wither Height	CW Chest Width	BD Body Depth	DS Dairy Strengt	RA Rump Angle	TW Thurl Width	RLS Rear Legs	RLR Rear Legs	BS Bone Structur	FA Foot Angle	FUA ForeUdder	RUH Rear Udder	RUW Rear Udder	UC Udder Cleft	UD Udder Depth	FTP Front Teat	RTP Rear Teat	TL 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
6115	664	3142	7.1	3142	0.44	6115	17.9	3142	0.18	709	-4.1	709	-10.4	972	94										
843	509	834	6.8	834	0.38	697	7.1	834	0.17	980	-2.0	99	-9.0	6238	92										
697	475	9111	3.2	802	0.31	843	4.7	6107	0.12	954	-0.1	802	-5.2	980	91										
383	134	9024	-2.2	6107	0.16	9111	0.0	802	0.11	802	1.2	5267	-4.0	941	89										
614	101	6115	-2.6	6231	0.15	980	-1.1	6231	0.08	5267	2.1	137	-3.0	954	88										
9111	53	972	-3.2	709	0.15	834	-2.2	972	0.04	9111	2.3	8106	-2.3	9111	88										
980	-41	843	-4.7	8097	0.15	3142	-3.7	8136	0.03	8013	3.8	383	-2.3	6231	87										
9024	-136	8160	-4.9	972	0.13	614	-5.3	99	0.01	6238	5.6	3156	-2.1	8106	86										
8160	-144	980	-5.6	99	0.10	8160	-5.7	980	0.01	9024	6.2	8136	-2.0	8136	86										
137	-148	6231	-6.0	941	0.08	972	-5.8	8160	0.00	6231	6.3	6231	-1.7	834	85										

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
709	-892	709	-39.5	697	-0.60	709	-37.3	709	-37.30	834	34.1	843	13.0	137	54										
802	-827	8106	-30.7	6115	-0.57	802	-26.4	802	-26.40	6115	22.9	6115	12.3	3156	60										
99	-677	99	-30.1	843	-0.49	8106	-26.2	8106	-26.20	383	22.1	3142	6.5	99	62										
8136	-563	802	-27.3	614	-0.48	99	-25.9	99	-25.90	614	21.8	697	4.3	5267	69										
8106	-560	8136	-25.0	383	-0.34	8136	-20.3	8136	-20.30	8106	20.0	834	4.3	614	70										
6107	-494	614	-23.9	954	-0.12	5267	-14.6	5267	-14.60	6107	19.5	1120	3.0	8013	71										
5267	-369	954	-20.2	980	-0.07	954	-14.5	954	-14.50	1120	18.8	980	2.9	8160	71										
3142	-352	8013	-19.6	6238	-0.03	8013	-14.5	8013	-14.50	697	18.4	614	2.7	8097	71										
8013	-345	6107	-17.1	8013	-0.03	6107	-12.3	6107	-12.30	843	18.1	941	2.3	1120	71										
834	-302	5267	-17.1	8106	-0.02	8097	-12.0	8097	-12.00	3142	17.2	9024	2.3	3142	72										

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
177160	167	17768	-5.2	17762	0.21	177160	-2.1	17762	0.09	177160	2.0	188168	-6.4	188168	92										
177353	-94	188156	-5.2	188156	0.06	188168	-3.6	177347	0.01	177347	2.3	177112	-5.1	177112	92										
188168	-101	188168	-7.3	17768	0.06	177353	-4.7	188168	0.00	17768	5.0	17762	-4.2	177353	91										
177347	-134	177353	-7.4	177112	0.02	177347	-4.8	188156	-0.01	188156	5.0	17768	-3.6	17762	89										
17768	-180	177347	-7.6	177347	-0.02	17768	-7.4	17768	-0.01	177353	5.7	188156	-3.6	177347	88										
188156	-180	177160	-9.2	188168	-0.04	188156	-7.4	177112	-0.02	188168	6.4	177347	-2.2	177160	87										
177112	-445	17762	-11.8	177353	-0.05	17762	-12.6	177353	-0.02	177112	14.3	177353	-1.8	17768	85										
17762	-458	177112	-22.3	177160	-0.30	177112	-18.2	177160	-0.14	17762	15.2	177160	6.5	188156	85										

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
17762	-458	177112	-22.3	177160	-0.30	177112	-18.2	17762	0.09	17762	15.2	177160	6.5	188156	85										
177112	-445	17762	-11.8	177353	-0.05	17762	-12.6	177112	-0.02	177112	14.3	177353	-1.8	17768	85										
17768	-180	177160	-9.2	188168	-0.04	17768	-7.4	17768	-0.01	188168	6.4	177347	-2.2	177160	87										
188156	-180	177347	-7.6	177347	-0.02	188156	-7.4	188156	-0.01	177353	5.7	17768	-3.6	177347	88										
177347	-134	177353	-7.4	177112	0.02	177347	-4.8	177347	0.01	17768	5.0	188156	-3.6	17762	89										
188168	-101	188168	-7.3	188156	0.06	177353	-4.7	188168	0.00	188156	5.0	17762	-4.2	177353	91										
177353	-94	188156	-5.2	17768	0.06	188168	-3.6	177353	-0.02	177347	2.3	177112	-5.1	188168	92										
177160	167	17768	-5.2	17762	0.21	177160	-2.1	177160	-0.14	17762	2.0	188168	-6.4	177112	92										

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 (%)	% Homozy- gosity	ABCG2	Casein		Beta Lacto- Globulin	DGAT1	Yellow Milk Fat	Horns / Polled	BLAD	DUMPS	Mulefoot	JH1
					Beta	Kappa								