

Jersey Genomic Evaluation

SA Stud Book
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MISS F.C. HYDE
POSTNET SUITE 508
PRIVATE BAG H607
HEIDELBERG
1438

SA STAMBOEK
STUD BOOK



CERTIFICATE
OF QUALITY
Valid up to
October 2029



LOGIX

Herd nr 629610



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

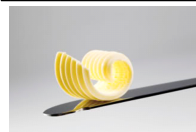
Traits for which breeding values (EBVs) are estimated

Milk (kg)



Milk Production

Butterfat (kg)



Bfat Production

Protein (kg)



Prot Production

Bfat & Prot %



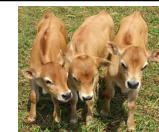
Solid percentages

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

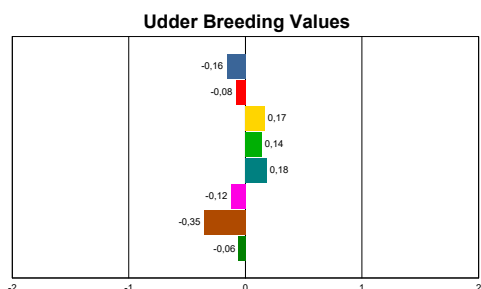
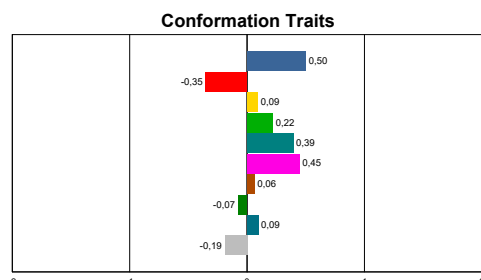
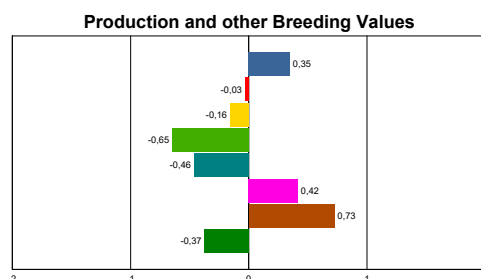
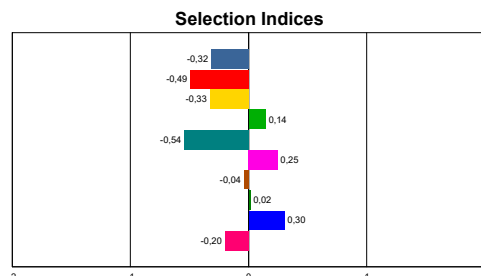
Base Year: 2020

Interpretation:

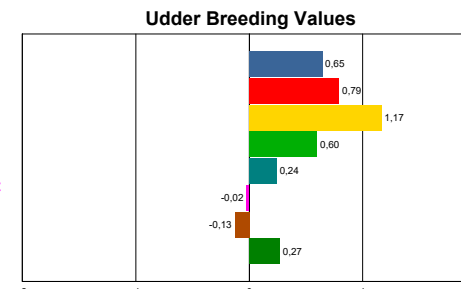
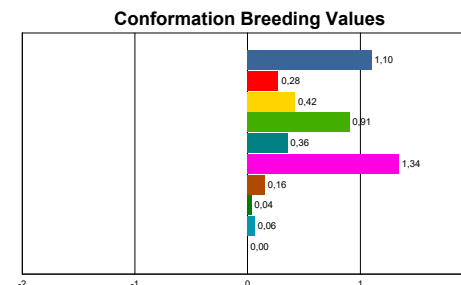
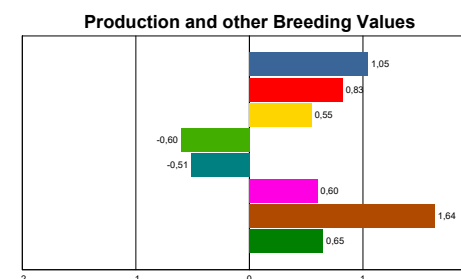
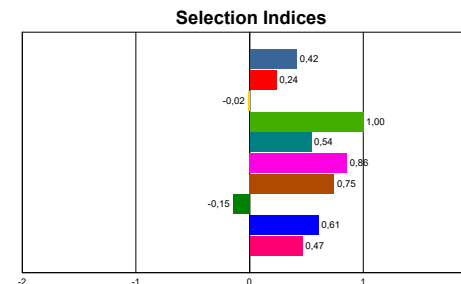
1. Genetic Windows indicate the average of the active animals in the herd relative to the average of the breed.
2. The average of all the active animals in the breed (cows, heifers and bulls) is set as zero and the deviation of the herd's cows, heifers, sires of cows and sires of heifers from the breed 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

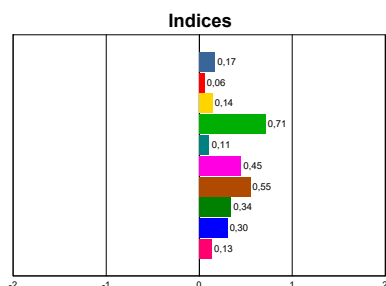


Sires of Cows

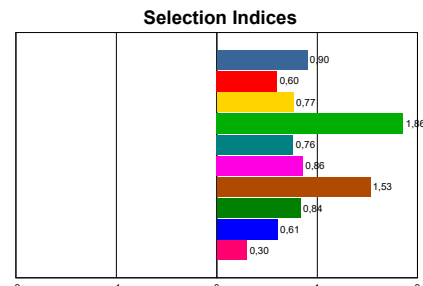


Genetic Windows

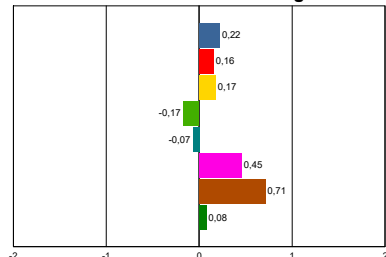
Heifers



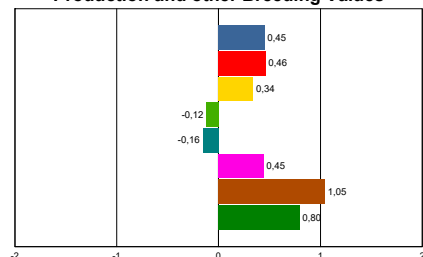
Sires of Heifers



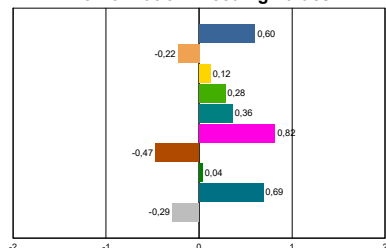
Production and other Breeding Values



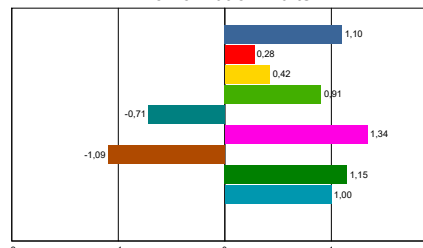
Production and other Breeding Values



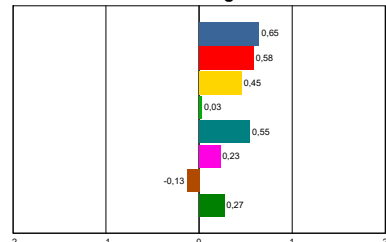
Conformation Breeding Values



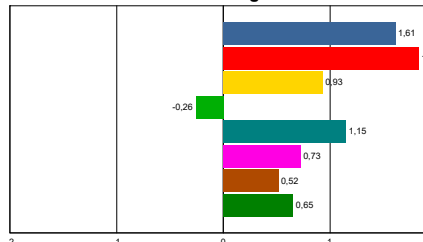
Conformation Traits



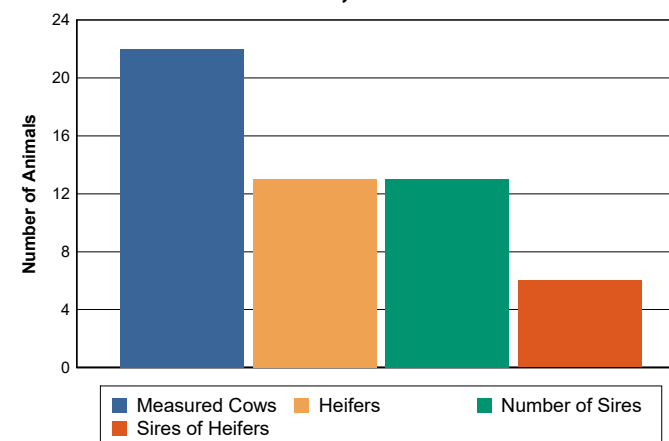
Udder Breeding Values



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	13	10	4	4	4

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	529.00	408.00	329.51	270.00	220.00	176.00	137.00	100.00	64.00	29.00	-4.00	-37.00	-73.00	-110.00	-150.00	-197.00	-253.53	-331.00	-454.00
BVet	26.10	20.40	17.00	14.40	12.30	10.30	8.50	6.80	5.20	3.60	2.00	0.30	-1.30	-2.90	-4.80	-7.00	-9.40	-12.90	-18.50
Prot	17.30	13.70	11.40	9.50	8.00	6.70	5.50	4.30	3.30	2.10	1.00	-0.10	-1.30	-2.50	-3.90	-5.40	-7.30	-9.80	-14.00
BV%	0.53	0.40	0.33	0.26	0.21	0.16	0.12	0.09	0.05	0.02	-0.02	-0.05	-0.08	-0.11	-0.15	-0.19	-0.25	-0.31	-0.42
Prot%	0.20	0.16	0.13	0.11	0.09	0.07	0.05	0.04	0.03	0.01	0.00	-0.01	-0.03	-0.04	-0.06	-0.08	-0.10	-0.13	-0.18
SCS	-22.18	-18.05	-15.11	-12.68	-10.68	-8.83	-7.06	-5.47	-3.97	-2.39	-0.90	0.67	2.26	3.92	5.75	7.66	10.21	13.53	18.47
TKP	-8.10	-6.30	-5.00	-4.20	-3.40	-2.70	-2.10	-1.60	-1.00	-0.40	0.20	0.80	1.40	2.00	2.80	3.60	4.50	5.80	7.90
KudLewe	118.00	115.00	113.00	111.00	109.00	108.00	107.00	105.00	104.00	103.00	102.00	101.00	99.00	98.00	96.00	95.00	93.00	90.00	86.00
LGI	105.83	104.73	104.03	103.49	103.03	102.64	102.28	101.91	101.55	101.17	100.81	100.43	100.01	99.56	99.09	98.55	97.88	96.97	95.53
DTI	110.54	108.34	106.88	105.85	104.83	104.10	103.37	102.63	101.90	101.32	100.59	100.00	99.27	98.54	97.66	96.63	95.46	93.85	91.37
LIGGAAM	108.00	106.00	105.00	105.00	104.00	103.00	103.00	102.00	102.00	101.00	101.00	100.00	99.00	99.00	98.00	97.00	96.00	95.00	92.00
UIER	108.00	106.00	105.00	104.00	104.00	103.00	102.00	102.00	101.00	101.00	100.00	99.00	99.00	98.00	97.00	96.00	95.00	94.00	92.00
H&B	110.00	108.00	107.00	106.00	105.00	104.00	104.00	103.00	102.00	101.00	101.00	100.00	99.00	98.00	97.00	96.00	94.00	93.00	91.00
SAINET	107.44	106.24	105.35	104.68	104.10	103.55	103.01	102.51	101.99	101.50	100.98	100.45	99.92	99.32	98.67	97.96	97.13	96.01	94.38
FMI	108.59	107.14	106.16	105.35	104.65	104.02	103.41	102.84	102.27	101.73	101.17	100.58	99.96	99.35	98.64	97.88	97.02	95.76	93.93
CYI	110.53	108.42	107.15	106.12	105.29	104.53	103.83	103.14	102.49	101.86	101.21	100.53	99.79	99.04	98.26	97.35	96.29	94.91	92.80

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	35	38642	22	24723	13	13919
Avg. Inbreeding	9.04	7.23	8.21	7.07	10.43	7.52
Nr >6.25% inbred	31	24448	20	14787	11	9661
Breeding Values (EBVs)						
Milk	129	36	143	19	104	66
Butterfat	3.2	3.7	1.5	1.5	6.1	7.5
Protein	2.4	2.0	1.7	0.9	3.5	4.0
Butterfat %	-0.06	0.03	-0.10	0.01	0.01	0.07
Protein %	-0.04	0.01	-0.06	0.01	-0.01	0.03
Somatic Cells	3.16	-2.27	2.99	-0.93	3.45	-4.66
Calf Interval	3.33	-0.28	3.35	-0.35	3.28	-0.14
Herdlife	100.6	102.7	99.0	102.9	103.5	102.4
Selection Indices						
SAINET	100.5	101.3	100.0	100.4	102.0	103.0
CYI	100.0	101.7	98.7	100.7	102.3	103.8
FMI	100.3	101.6	99.4	100.7	101.7	103.2
FTI	101.5	100.5	100.6	100.0	103.1	101.6
FUI	100.1	101.1	99.2	100.0	101.7	103.2
Body	102.1	100.7	101.7	100.3	102.8	101.5
Udder	101.4	100.2	100.2	99.6	103.4	101.4
Feet & Legs	101.4	100.9	100.6	100.3	102.8	102.1
BWC	101.7	101.0	101.5	100.6	102.1	101.7
EFI	100.7	101.2	100.1	100.4	101.6	102.8

The average breeding values and indices of the cows and heifers currently in the herd and breed as on 11 May 2026

Genetic Levels of Bulls

	Bulls Used	
	Herd	Breed
Nr of bulls	21	1435
Avg. Inbreeding	9.76	7.44
Nr >6.25% inbred	19	1006
Breeding Values (EBVs)		
Milk	253	70
Butterfat	9.7	4.7
Protein	7.8	3.1
Butterfat %	-0.06	0.02
Protein %	-0.03	0.01
Somatic Cells	3.99	-0.08
Calf Interval	5.85	0.67
Herdlife	107	102.7
Selection Indices		
SAINET	103.0	101.1
CYI	103.3	101.7
FMI	103.4	101.3
FTI	104.0	101.1
FUI	102.0	100.3
Body	104.6	101.3
Udder	104.8	101.0
Feet & Legs	100.9	101.1
BWC	103.1	100.7
EFI	103.2	101.9

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
2011 - 2025	9.38	0.30
Recommendations:	< 6.25	< 0.1 - 0.2

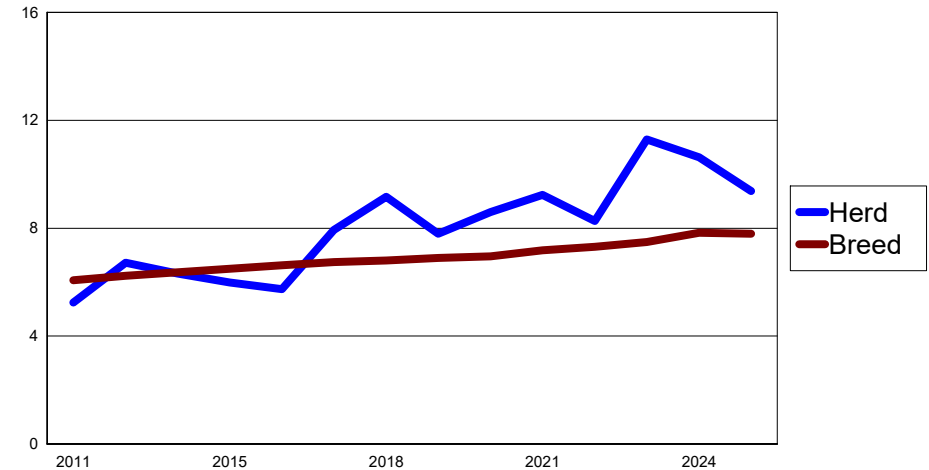
* Of the last birth year

Pedigree Information

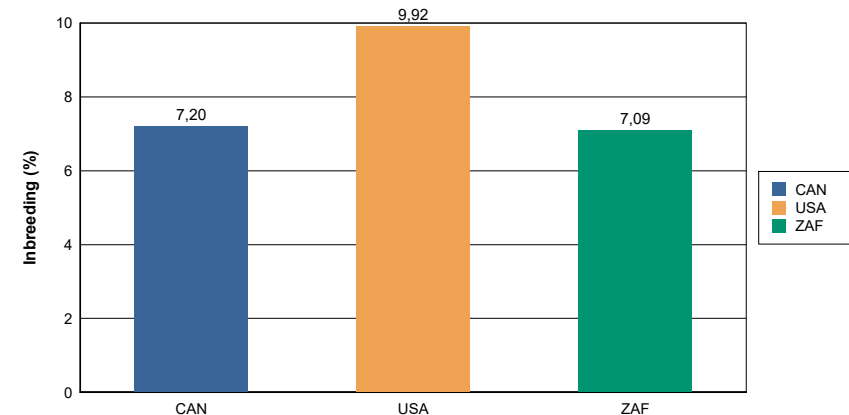
	Number	%
Known Sires	40	100
Known Dams	40	100

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

Inbreeding: Herd vs Breed

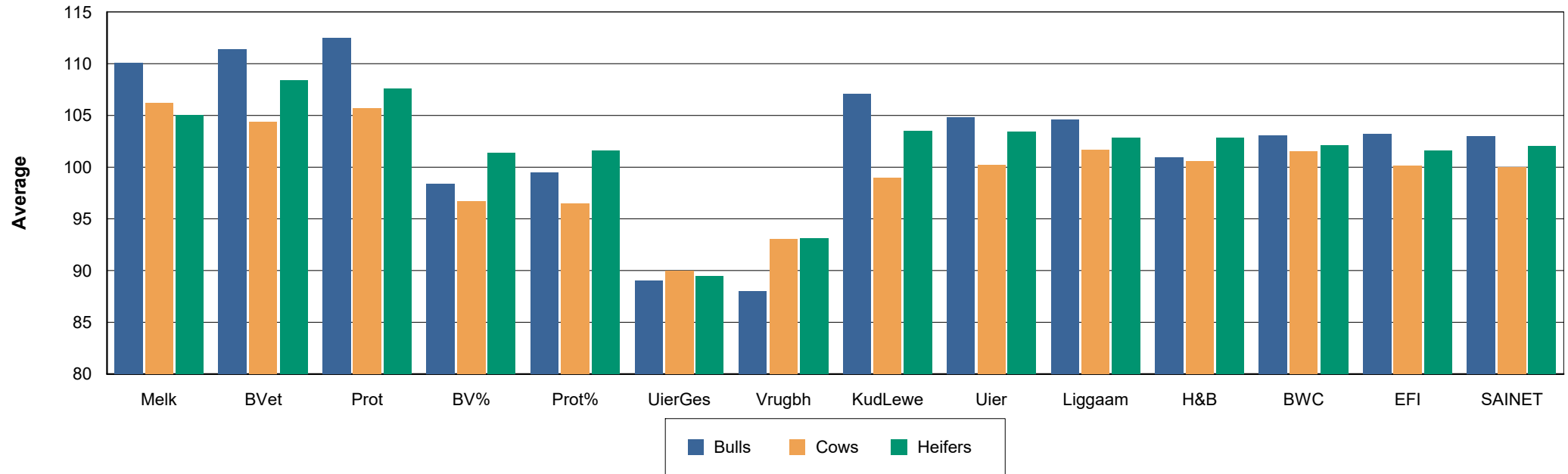


Average Inbreeding per Country of Sire



Jersey

Genetic Levels of the Herd



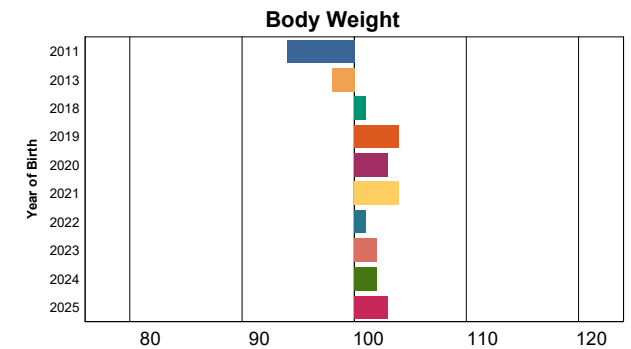
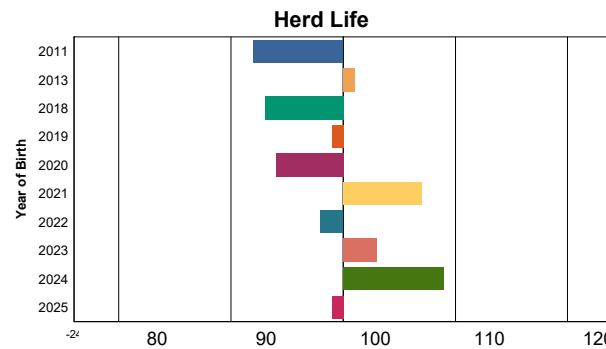
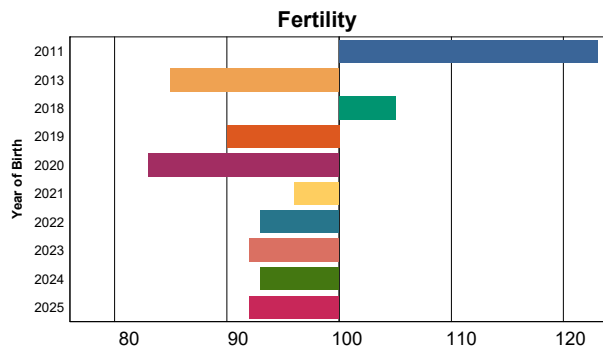
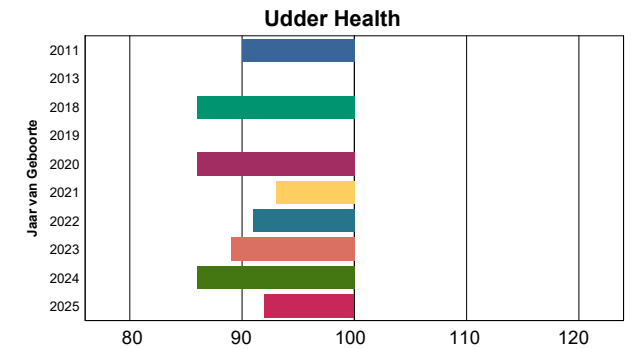
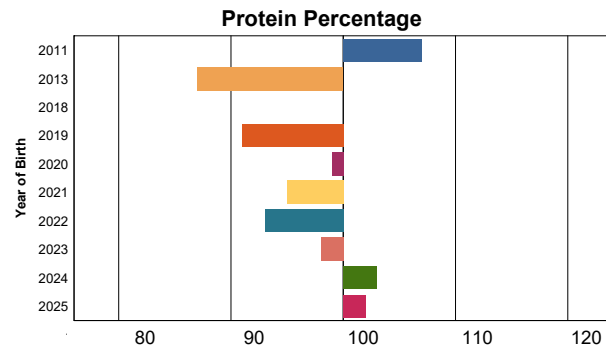
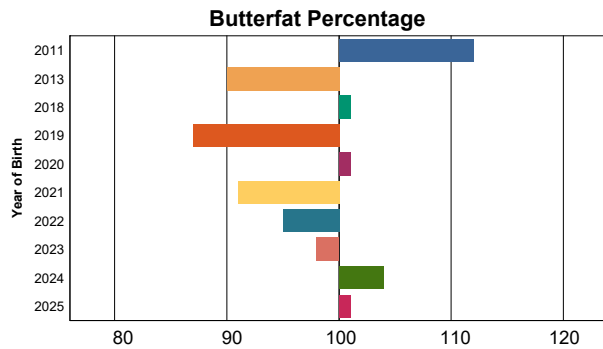
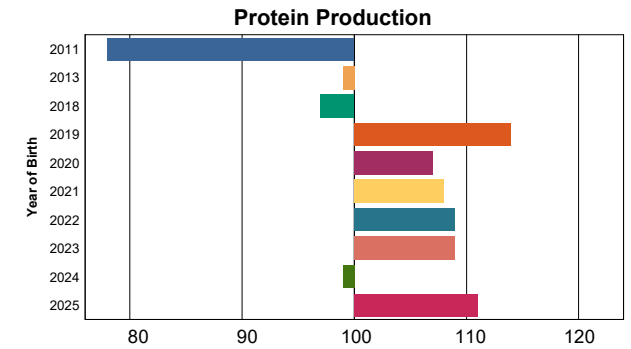
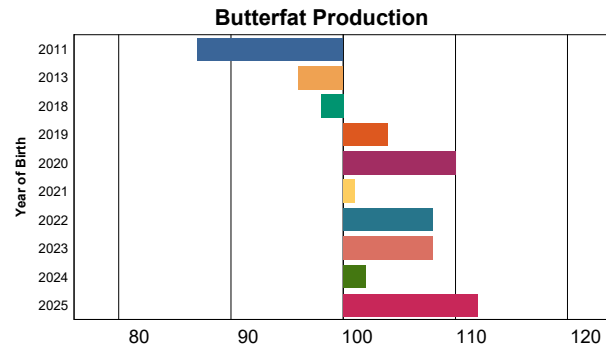
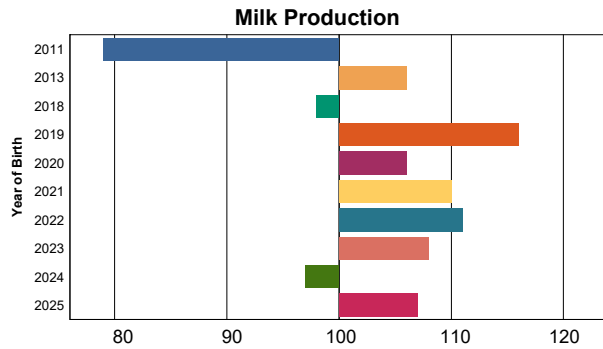
Jersey

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	105,0	103,7	109,1	102,7	109,0	102,6	107,0	101,9	95,5	101,3
Butterfat	108,4	109,5	105,8	107,0	106,3	104,8	102,8	103,3	100,5	102,6
Protein	107,6	108,3	108,5	106,5	109,3	105,6	105,8	104,3	95,0	103,2
BF%	101,4	103,5	94,8	102,6	95,3	101,0	94,8	100,6	104,8	100,7
Prot%	101,6	104,8	95,5	104,2	96,5	103,2	94,8	102,5	100,5	102,0
UdderHealth	89,5	97,7	88,8	96,6	94,0	94,9	89,8	93,3	89,5	91,9
Fertility	93,1	99,8	91,9	100,4	90,3	99,4	92,0	99,3	99,5	100,8
Herdlife	103,5	102,4	100,7	101,2	101,5	101,1	96,3	102,9	94,8	105,0
BWC	102,1	101,7	101,1	101,8	102,2	101,2	101,1	100,5	99,3	99,6
EFI	101,6	102,8	101,6	101,0	101,4	100,7	100,0	100,4	95,5	99,9
Body	102,8	101,5	101,4	101,0	104,8	100,8	101,8	100,2	99,3	99,6
Udder	103,4	101,4	101,7	100,2	102,3	100,2	98,8	99,7	96,0	98,8
F&L	102,8	102,1	100,7	101,4	97,3	100,5	101,0	100,3	103,3	99,6
FMI	101,7	103,2	100,7	101,6	101,0	101,0	98,5	100,6	95,5	100,0
CYI	102,3	103,8	99,5	101,9	100,0	101,0	97,3	100,5	96,5	99,7
SAINET	102,0	103,0	100,6	101,5	100,9	100,9	98,7	100,2	96,8	99,4

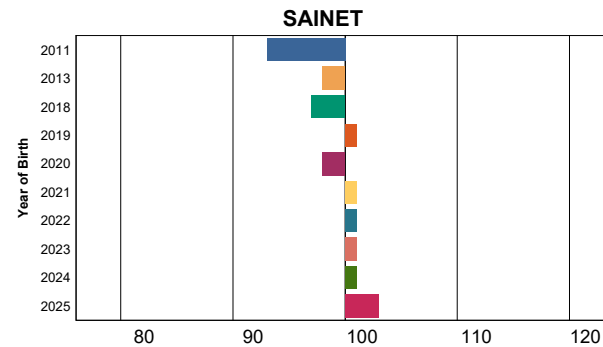
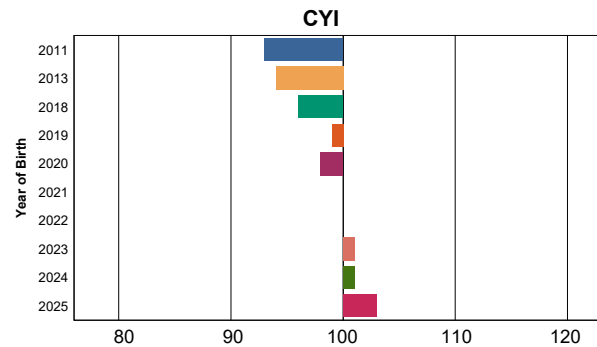
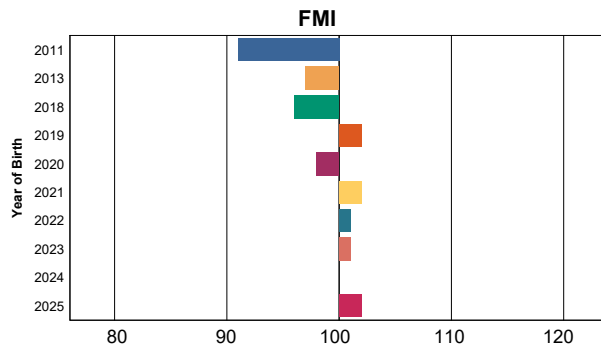
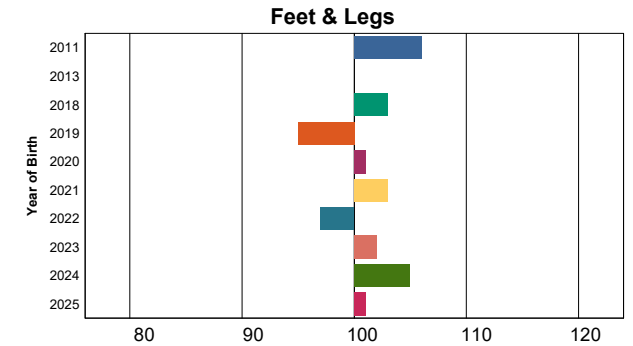
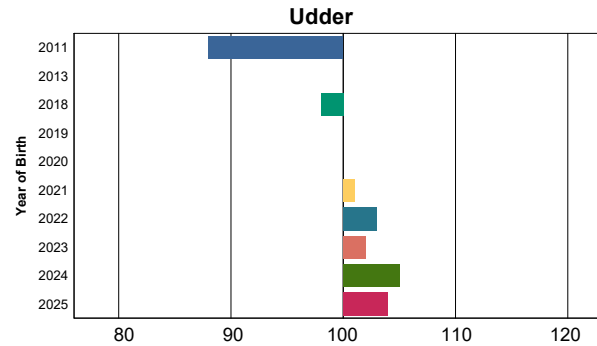
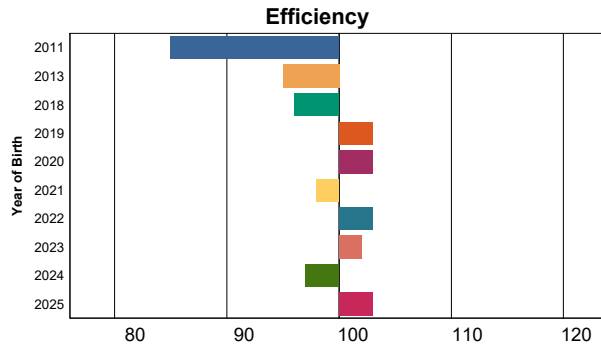
Jersey

Average Performance of Active Cows per Year of Birth



Jersey

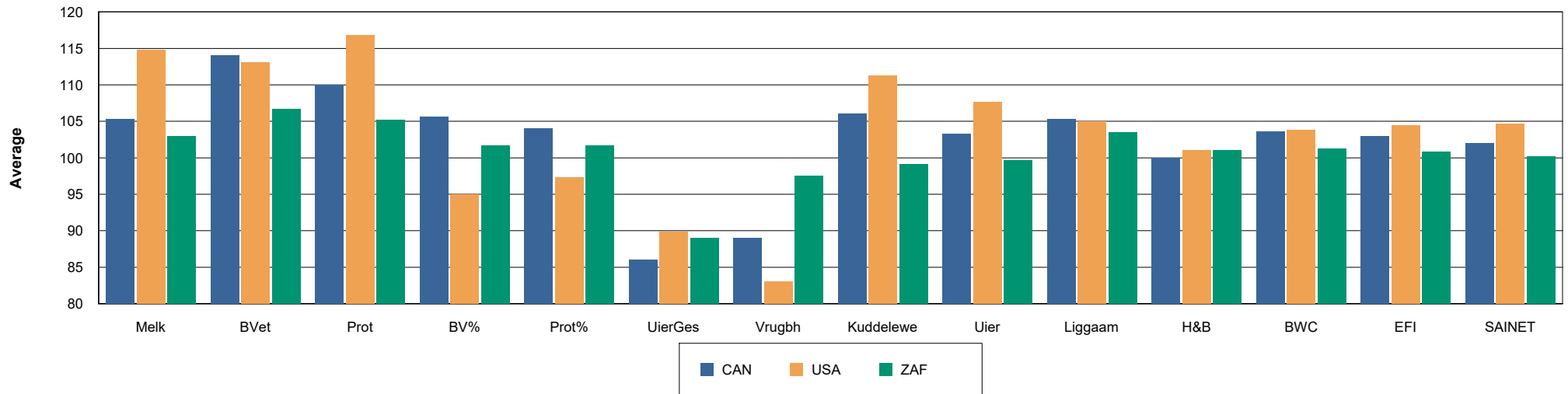
Average Performance of Active Cows per Year of Birth



Year of Birth	Number
2011	1
2013	1
2018	2
2019	1
2020	4
2021	4
2022	3
2023	10
2024	3
2025	6

Jersey

Average Genetic Levels per Country of Sire

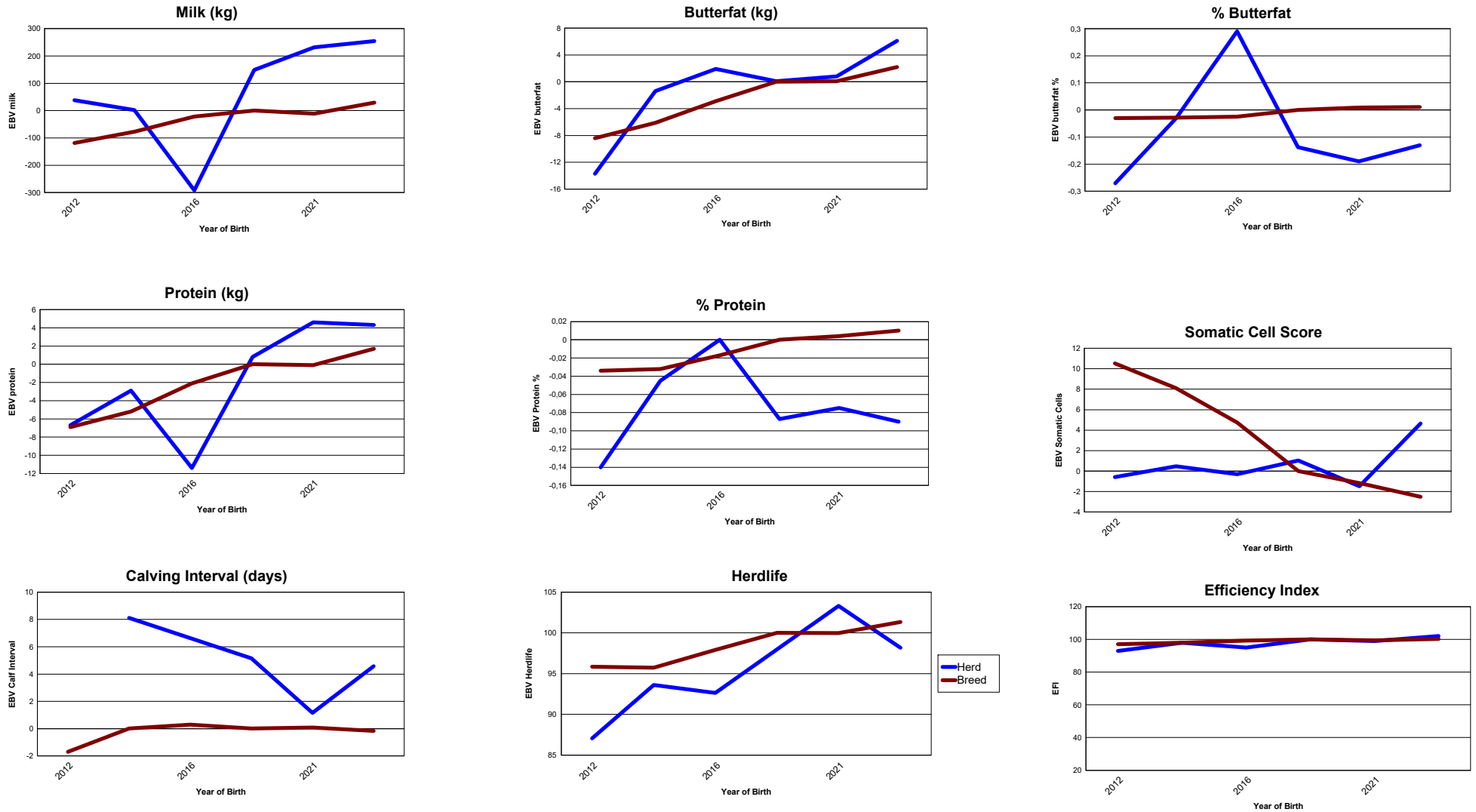


Number of Bulls and Daughters per Country of Sire

Country	Nr of Bulls	Nr of Daughters
CAN	3	4
USA	12	30
ZAF	6	1

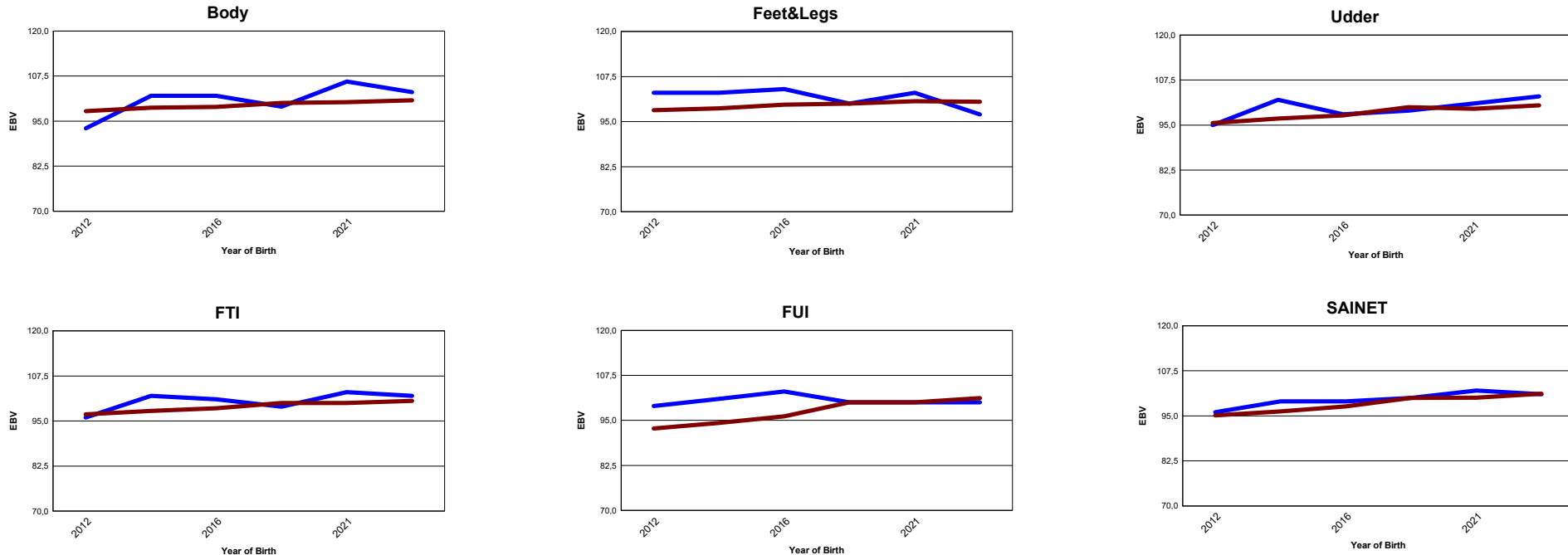
Jersey

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
2014	6639	6639	6639	-78	-6.1	-5.2	-0.03	-0.03	8.1	0.0	95.7
2016	6283	6216	6215	-22	-2.9	-2.1	-0.03	-0.02	4.8	0.3	97.9
2020	6332	6082	6082	0	0.0	0.0	0.00	0.00	0.0	0.0	100.0
2021	5249	4841	4841	-11	0.1	-0.1	0.01	0.00	-1.2	0.1	100.0
2022	5278	5169	5169	30	2.2	1.7	0.01	0.01	-2.5	-0.2	101.3

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
2014	2	2	2	2	-1.4	-2.9	-0.03	-0.05	0.5	8.1	93.6
2016	2	2	2	-292	1.9	-11.4	0.29	0.00	-0.3		92.6
2020	3	3	3	149	0.1	0.8	-0.14	-0.09	1.0	5.2	100
2021	2	2	2	232	0.8	4.6	-0.19	-0.08	-1.5	1.2	103.3
2022	2	2	2	255	6.1	4.3	-0.13	-0.09	4.7	4.6	98.2

Percentile Tables

All Animals

Trait	EBV Avg	Std. Dev.	Max	5%	10%	25%	50%	75%	90%	95%	Min
Melk	39	303	1823	535	412	224	32	-148	-328	-451	-1378
Bottervet	3.7	13.8	78.6	26.2	20.6	12.3	3.7	-4.8	-13.1	-18.7	-80.0
Proteien	2.1	9.7	53.0	17.4	13.9	8.1	2.2	-3.8	-9.8	-14.0	-48.7
Bottervet%	0.03	0.29	1.61	0.52	0.40	0.21	0.01	-0.15	-0.31	-0.42	-1.76
Proteien%	0.01	0.12	0.70	0.20	0.15	0.09	0.01	-0.06	-0.13	-0.18	-0.64
Somaties	-2.2	12.5	90.2	-26.7	-22.3	-10.7	-2.3	5.9	13.7	18.8	-56.0
Kalf Interval	-0.2	4.9	30.8	-10.2	-8.1	-3.4	-0.4	2.8	6.0	8.0	-24.9
Kudde Lewe	103	10	153	118	115	109	103	96	90	86	43
Liggaam	101	5	132	108	106	104	101	98	95	92	71
Uier	100	5	124	108	106	104	101	97	94	92	72
Hoewe & Benc	101	6	139	110	108	105	101	97	93	90	56
FTI	101	4	115	106	105	103	101	98	96	94	80
CYI	102	6	126	111	109	105	102	98	95	93	72
FMI	102	5	120	109	107	105	102	99	96	94	75
SAINET	101	4	118	108	106	104	102	99	96	94	79

Cows and Heifers

Trait	EBV Avg	Std. Dev.	Max	5%	10%	25%	50%	75%	90%	95%	Min
Melk	38	302	1823	530	409	221	31	-148	-328	-449	-1378
Bottervet	3.7	13.7	78.6	26.1	20.4	12.3	3.6	-4.8	-13.0	-18.6	-80.0
Proteien	2.1	9.7	53.0	17.3	13.8	8.1	2.2	-3.8	-9.8	-13.9	-48.7
Bottervet%	0.03	0.29	1.61	0.52	0.40	0.21	0.02	-0.15	-0.31	-0.42	-1.76
Proteien%	0.01	0.11	0.70	0.20	0.15	0.09	0.01	-0.06	-0.13	-0.18	-0.64
Somaties	-2.3	12.3	56.0	-22.2	-18.0	-10.7	-2.4	5.8	13.5	18.5	-52.8
Kalf Interval	-0.3	4.9	25.3	-8.0	-6.2	-3.4	-0.4	2.8	5.9	7.9	-24.9
Kudde Lewe	103	10	153	118	115	109	103	96	90	86	53
Liggaam	101	5	132	108	106	104	101	98	95	92	71
Uier	100	5	120	108	106	104	101	97	94	92	72
Hoewe & Benc	101	6	130	110	108	105	101	97	93	91	68
FTI	101	3	115	106	105	103	101	98	96	94	81
CYI	102	5	126	111	108	105	102	98	95	93	74
FMI	102	5	120	109	107	105	102	99	96	94	81
SAINET	101	4	116	107	106	104	102	99	96	94	81

All Bulls

Trait	EBV Avg	Std. Dev.	Max	5%	10%	25%	50%	75%	90%	95%	Min
Melk	71	331	1090	623	493	298	65	-141	-340	-473	-1083
Bottervet	4.7	15.3	57.3	29.0	23.8	14.8	4.9	-5.0	-15.0	-20.7	-58.4
Proteien	3.1	10.8	35.0	20.6	16.5	10.4	3.5	-4.4	-10.5	-15.0	-36.7
Bottervet%	0.02	0.31	1.29	0.57	0.44	0.20	0.00	-0.17	-0.35	-0.44	-0.93
Proteien%	0.01	0.13	0.50	0.22	0.16	0.09	0.01	-0.07	-0.15	-0.21	-0.43
Somaties	-0.1	15.6	90.2	-25.3	-19.7	-10.6	0.4	9.3	20.1	26.2	-56.0
Kalf Interval	0.7	6.7	30.8	-9.4	-7.1	-3.9	0.0	5.0	9.3	12.1	-21.7
Kudde Lewe	103	13	151	123	118	111	103	95	85	78	43
Liggaam	101	6	123	111	109	105	102	98	94	91	72
Uier	101	7	124	111	109	105	102	97	92	89	74
Hoewe & Benc	101	7	139	111	110	106	102	97	92	89	56
FTI	101	5	115	108	107	104	101	98	95	94	80
CYI	102	7	125	112	110	106	102	98	93	91	72
FMI	101	6	120	110	109	105	102	98	94	91	75
SAINET	101	5	118	109	107	105	101	98	94	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:				7.23	101	102	102	101	100	101	101	101	36	3.7	0.03	2.0	0.01	-2.3	-0.3	103										
87964839	AHLEM WHISTLER ET		2017 USA	9.53	104	102	104	108	106	104	108	99	333 89 113	4.0 84 106	-0.22 84 92	6.0 88 110	-0.11 88 92	M -2.9 74 96	M 9.2 61 82	M 117 48	71 6	5 3	252 21 144							
70472675	ALL LYNNS LOUIE VALENTINO-ET		2008 USA	8.83	104	101	103	110	110	98	105	102	G 502 79 119	GZ 7.0 99 109	-0.31 99 88	GZ 9.0 99 114	-0.16 99 87	GZ -9.0 99 102	GZ 15.0 99 70	GZ105 99	1524 67	3 1	264 12 3510							
93741189	AVONLEA CHOCOCHIP ET		2019 CAN	6.84	104	103	102	104	117	113	109	84	M -471 71 85	M -22.4 58 84	0.05 58 58	M -18.5 63 83	0.00 63 102	M 8.4 71 85	M -0.4 54 100	M 132 29										
HRG405 96866496	JOYFUL DURABLE CHRISTOPHER		2024 ZAF	12.42	100	99	99	104	105	99	100	101	M 95 24 105	M 0.8 22 104	-0.07 22 98	M 1.7 23 106	-0.03 23 100	M 4.7 22 88	M 6.2 21 87	M 97 19										
HRG415 97913842	JOYFUL DURABLE LUCAS		2024 ZAF	20.87	100	100	100	104	101	101	101	101	M 102 19 105	M 3.1 17 106	-0.04 17 99	M 3.1 18 107	-0.01 18 101	M 5.8 17 87	M 4.2 16 91	M 98 14										
HRG4121 97416432	JOYFUL GABRIEL PHINEAS		2024 ZAF	9.89	102	102	103	100	103	95	102	99	102 14 105	-1.2 13 102	-0.12 13 96	0.0 14 104	-0.07 14 96	-3.6 12 97	-4.2 8 108	110 8										
HRG503 98234297	JOYFUL MACKENZIE ROY		2025 ZAF	9.06	100	104	99	109	100	100	102	109	145 31 106	28.0 30 127	0.31 30 113	9.5 30 114	0.06 30 108	16.5 27 77	M 11.1 19 78	M 95 21										
HRG509 99286924	JOYFUL WORSHIP ABE		2025 ZAF	8.93	102	103	101	99	101	102	101	103	M 63 21 104	M 8.0 20 110	0.08 20 104	M 5.4 20 110	0.05 20 107	M 0.4 20 93	M -2.0 18 103	M 91 18										
90443847	JX AHLEM ENDURANCE {4} ET		2018 USA	8.79	106	108	108	101	109	96	102	109	450 82 117	M 22.2 72 122	-0.03 72 100	15.0 80 121	-0.04 80 99	M -1.0 65 94	M 6.9 54 86	M 113 47	37 5	8 2	240 32 66							
88343405	JX BUTTERCREST GLISTEN {4} ET		2013 USA	7.18	105	102	106	98	113	99	106	99	M 426 60 116	M 4.3 52 107	-0.29 52 89	M 5.9 54 110	-0.17 54 86	M 5.7 60 87	M 8.4 48 83	M 119 42	2 1		122 100							
89986657	JX LOVES OCTAVIUS {6} ET		2017 USA	8.32	104	110	106	107	106	100	95	116	M 346 60 113	M 27.6 52 127	0.14 52 106	M 20.8 54 127	0.12 54 114	M 20.5 59 73	M 10.2 55 80	M 115 42										
96965751	JX PROGENESIS CINNAMON {6} - ET		2022 USA	10.32	116	117	116	104	116	115	106	109	M 454 52 117	M 24.5 52 124	0.00 52 101	M 21.0 52 127	0.05 52 107	M -11.3 51 104	M 0.6 26 98	M 110 28										
92102490	JX RIVER VALLEY CHIEF {6} ET		2017 USA	15.33	101	99	103	104	106	99	93	113	M 728 76 126	M 20.0 68 120	-0.29 68 89	M 12.7 73 118	-0.24 73 80	M 13.7 64 79	M 18.3 59 64	M 114 45	24 2	4 1	236 40							
80224793	MISSISKA MACKENZIE ET		2013 CAN	5.98	99	107	97	111	101	92	98	120	131 95 106	55.0 92 150	0.79 92 132	16.0 94 122	0.18 94 119	31.0 85 62	M 18.5 66 64	M 83 66	143 13		256 15 303							
83415919	OOMSDALE CONNER ET		2014 USA	8.62	103	102	106	109	104	91	118	96	M 544 61 120	M 8.5 51 110	-0.32 51 88	M 13.0 54 118	-0.13 54 90	M 7.9 59 85	M 12.1 58 76	M 123 45										
85246130	PROGENESIS TIGNISH 6 ET		2015 CAN	8.81	103	101	106	101	92	95	104	105	682 85 125	5.3 82 108	-0.47 82 82	18.9 84 125	-0.12 84 91	-18.0 66 111	-1.8 31 103	103 40	44 3		270 12 113							
PNK861 66588070	PROSPECT LANCELOTS KING ATHUR		2008 ZAF	5.32	96	96	96	105	88	109	103	91	-246 46 93	-13.5 45 91	-0.01 45 100	-12.6 45 90	-0.05 45 98	1.6 36 92	-9.4 30 118	104 32	5 5		236 40							
90443821	RIVER VALLEY BUTTONS BIONIC ET		2018 USA	11.39	104	101	106	103	111	104	105	100	M 584 65 122	M -6.1 57 98	-0.57 57 78	M 13.6 61 119	-0.14 61 89	M 4.1 58 89	M 8.8 58 82	M 112 45	10 1	4 1	219 41							
92280890	RIVER VALLEY MERCEDES ET		2020 USA	9.71	103	105	103	107	103	107	102	103	M 141 65 106	M 7.7 56 110	0.00 56 101	M 7.7 61 112	0.04 61 106	M 9.9 57 83	M 4.4 52 91	M 112 29	11 3	2 1	211 58							
85028900	ROC-BOT DURABLE ET		2015 USA	10.62	103	104	102	106	104	104	101	102	M 1 65 101	M 4.3 57 107	0.07 57 104	M 3.7 60 108	0.06 60 108	M 5.7 58 87	M 1.6 55 96	M 101 46	14 4		222 32 22							
94882594	TOG DELTOID ET		2019 USA	8.30	104	105	104	103	104	96	105	105	M 199 61 108	M 16.4 51 117	0.09 51 104	M 12.4 54 118	0.08 54 110	M -6.3 60 99	M 5.2 51 89	M 95 36										

Bull average (herd) :	9.76	103	103	103	105	105	101	103	103	253	9.7	-0.06	7.8	-0.03	4.0	5.9	107
Nr bulls (herd):	21																
Bull average (breed):	7.44	101	102	101	101	101	101	101	102	70	4.7	0.02	3.1	0.01	-0.1	0.7	103
Nr bulls (breed):	1435																

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	106	106	102	104	95	100	103	100	101	101	101
Herd Average :							106	106	106	98	98	90	93	101	101	101	101	101
1	ROC-BOT DURABLE ET		2017	- 2025	2018	- 2025	Bull EBVs :											
			111	11	14	7	Herd Daugtr EBVs :											
	85028900	USA	14	0	6	0	All Daughter EBVs :											
							101	107	108	104	108	87	96	101	104	104	102	103
							101	104	105	101	103	87	98	94	100	102	101	100
							102	102	104	99	102	88	103	98	102	100	101	101

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:			7.23	101	102	102	101	100	101	101	101	36	3.7	0.03	2.0	0.01	-2.3	-0.3	103																	
												Year of Birth : 2011																								
HRD1166 73702185		HYDEAWAY BRIAR	4.30	93	93	91	94	88	106	105	85	-637 26	-19.2 79	0.27 21	-22.5 112	0.05 25	3.0 78	-12.4 25	92 107	90 14	11 90	123 11	6	8	543	7302	324	4.4	263	3.6	PROSPECT LANCELOTS KING ATHUR HRD08004	2008				
												Year of Birth : 2013																								
HRD3102 78638335		HYDEAWAY VALENTINO MERIDA	7.15	98	94	97	98	100	100	103	95	131 30	-8.5 106	-0.26 30	-4.6 90	-0.16 30	-7.2 87	7.2 28	101 100	101 27	85 28	6	6	665	6809	278	4.1	240	3.5	ALL LYNNS LOUIE VALENTINO-ET HRD0832	2008					
												Year of Birth : 2018																								
HRG803 88724109		JOYFUL DURABLE PRINCESS II	6.38	97	97	96	102	99	99	99	99	-94 22	-1.7 98	0.05 20	-2.9 103	0.01 21	10.2 100	-0.2 21	89 103	16			3	726	6289	312	5.0	226	3.6	ROC-BOT DURABLE ET HRD460	2014					
HRG804 88724091		JOYFUL CONNER BLINKERS I	5.34	97	96	96	99	96	106	101	94	-137 12	-11.4 97	-0.08 11	-9.2 98	-0.07 12	4.2 93	-5.3 12	97 96	9	89	9	110 7	5	449	7086	293	4.1	248	3.5	OOMSDALE CONNER ET HRD1166	2011				
												Year of Birth : 2019																								
HRG903 88720180		JOYFUL TIGNISH BOKKIE I	8.11	101	99	102	104	100	95	101	103	434 29	1.5 116	-0.34 28	9.3 87	-0.12 29	-7.1 91	5.0 24	99 100	16	90 18		3	467	6415	273	4.3	234	3.7	PROGENESIS TIGNISH 6 ET HRG408	2014					
												Year of Birth : 2020																								
HRG002 89990816		JOYFUL GLISTEN BLINKERS	8.84	98	96	98	102	98	102	101	101	201 14	2.1 108	-0.15 13	2.5 95	-0.09 14	6.1 107	7.5 14	96 85	11			5	3	476	6948	294	4.2	250	3.6	JX BUTTERCREST GLISTEN {4} ET HRG801	2018				
HRG003 89990824		JOYFUL MACKENZIE BLINKERS	9.09	99	103	98	106	100	101	101	108	-26 36	27.1 100	0.46 33	5.4 119	0.10 35	14.1 110	9.8 35	89 112	23			4	401	6182	268	4.3	222	3.6	MISSISKA MACKENZIE ET HRG1406	2014					
HRG005 91534990		JOYFUL GLISTEN BLINKERS III	8.82	98	97	98	99	98	108	103	97	140 11	-3.0 106	-0.18 10	-1.5 100	-0.12 10	4.0 94	3.3 11	101 102	8			3	3	450	7687	294	3.8	260	3.4	JX BUTTERCREST GLISTEN {4} ET HRG804	2018				
HRG008 91534974		JOYFUL OCTAVIUS BOKKIE	9.15	98	97	97	106	104	93	98	105	230 16	7.3 109	-0.09 15	5.3 97	-0.06 16	6.1 110	12.4 16	88 87	14	75 14	2	512	5739	250	4.4	196	3.4	JX LOVES OCTAVIUS {6} ET HRG408	2014						
												Year of Birth : 2021																								
HRG112 94381233		JOYFUL WHISTLER FIONA	8.50	102	102	104	104	99	102	105	99	304 29	0.2 112	-0.26 28	6.5 90	-0.09 29	-4.8 111	-1.2 29	114 94				5	2	376	5358	205	3.8	195	3.6	AHLEM WHISTLER ET HRG901	2019				
HRG118 94381381		JOYFUL BIONIC PRINCESS I	10.34	100	98	101	101	101	101	103	100	356 22	-6.0 114	-0.39 20	7.9 85	-0.09 21	3.6 113	4.1 21	98 94	12			1	0	4145	176	4.3	145	3.5	RIVER VALLEY BUTTONS BIONIC ET HRG912	2019					
HRG119 94381217		JOYFUL WHISTLER BLINKERS I	8.97	102	101	102	107	103	103	105	99	160 28	1.4 107	-0.12 26	2.7 96	-0.06 28	1.9 97	3.5 23	108 91	17			3	2	474	5920	243	4.1	212	3.6	AHLEM WHISTLER ET HRG801	2018				
HRG120 94381225		JOYFUL WHISTLER BLINKERS II	8.18	101	99	101	104	102	104	105	96	98 25	-3.8 105	-0.16 24	-1.4 94	-0.09 25	0.5 94	1.6 20	108 93	13				1	0	0	0	0.0	0	0.0	AHLEM WHISTLER ET HRG804	2018				

Herdnr: 629610 MISS F.C. HYDE

Jersey Genomic Evaluation, May 2026

Cows

Animals sorted on farmersnumber within birth year

*Inbreeding in red is high

Above breed average

Top 10% of the breed

Bottom 10% of the breed

G = Genomically enhanced EBV

Cow				Selection Indices								Breeding Values (EBV), Reliabilities (B) and Indices (Ind)													Average Production Values							Pedigree		
FarmNr Regno	Parent Verification	Name	% In- brd*	SAI	CYI	FMI	Body	Udder	F&L	BWC	EFI	Milk B	Bfat Ind	Bfat% B	Prot Ind	Prot% B	SCS Ind	Calf Int B	Herdlif Ind	Tests/lact. B	1	2	3	Nr Lac	ICP	Kg Milk	Kg Bfat	% Bfat	Kg Prot	% Prot	Sire Dam	Dam Byear		
Active Breed Average:			7.23	101	102	102	101	100	101	101	101	36	3.7	0.03	2.0	0.01	-2.3	-0.3	103															
				Year of Birth : 2022																														
HRG206 94649076		JOYFUL ENDURANCE BONTROK	8.46	101	100	101	102	103	91	100	103	202 30	6.5 108	-0.08 27	4.7 98	-0.05 29	-7.3 109	4.6 29	96 98	16 20	8					2	448	5142	237	4.6	190	3.7	JX AHLEM ENDURANCE {4} ET HRG707	2017
HRG211 94649100		JOYFUL CHIEF BLINKERS	8.42	100	99	100	104	102	102	101	102	307 25	5.6 112	-0.18 23	3.9 94	-0.13 24	16.6 108	5.4 24	100 90	11 18	6				1	0	5425	215	4.0	186	3.4	JX RIVER VALLEY CHIEF {6} ET HRG801	2018	
HRG219 94717998		JOYFUL ENDURANCE PRINCESSII	7.67	102	101	103	98	103	97	100	104	338 28	5.3 113	-0.21 27	6.4 92	-0.11 28	-3.8 92	0.7 23	99 97	18					1	0	6693	265	4.0	228	3.4	JX AHLEM ENDURANCE {4} ET HRG702	2017	
				Year of Birth : 2023																														
HRG301 94718012		JOYFUL ENDURANCE BOKKIE	9.17	103	102	103	101	109	97	100	105	318 29	9.7 112	-0.12 27	7.5 96	-0.08 28	0.4 95	9.2 24	102 93	19					1	0	0	0	0.0	0	0.0	JX AHLEM ENDURANCE {4} ET HRG408	2014	
HRG303 94765690		JOYFUL MERCEDES BLUEBELL	7.20	98	98	99	100	98	101	102	101	169 19	3.1 107	-0.10 17	3.1 97	-0.06 18	6.2 107	6.5 14	100 87	7					1	0	4989	171	3.4	198	4.0	RIVER VALLEY MERCEDES ET HRG915	2019	
HRG305 96340104		JOYFUL MERCEDES LOBELLIA	9.19	102	102	103	99	100	101	103	101	153 23	4.7 107	-0.06 21	3.5 98	-0.04 23	-4.2 99	-2.1 18	106 97	11					1	0	4000	194	4.9	167	4.2	RIVER VALLEY MERCEDES ET HRG103	2021	
HRG310 96329552		JOYFUL CHIEF BLINKERS IV	9.30	100	98	100	103	103	100	98	106	453 22	10.2 117	-0.22 21	7.2 92	-0.16 22	10.8 87	12.4 19	105 82	14					1	0	0	0	0.0	0	0.0	JX RIVER VALLEY CHIEF {6} ET HRG002	2020	
HRG312 96329537		JOYFUL DURABLE FIONA	7.27	98	99	98	98	95	106	101	99	65 22	4.0 99	-0.01 20	0.9 100	0.3 21	6.8 105	5.0 20	96 86	17					1	0	0	0	0.0	0	0.0	ROC-BOT DURABLE ET HRG1510	2015	
				Year of Birth : 2024																														
HRG403 96494620		JOYFUL DURABLE BOKKIE II	10.88	101	100	100	106	104	98	99	103	117 20	5.7 105	-0.01 18	4.5 100	0.00 19	5.8 102	6.7 18	93 87	15					1	0	0	0	0.0	0	0.0	ROC-BOT DURABLE ET HRG008	2020	

Average (cow herd):	8.21	100	99	99	102	100	101	102	100	143	1.5	-0.10	1.7	-0.06	3.0	3.4	99														
Nr of cows (herd):	38642																														
Cow average (breed):	7.07	100	101	101	100	100	100	101	100	19	1.5	0.01	0.9	0.01	-0.9	-0.4	103														
Nr cows (breed):	22																														

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 Birth Years Total In Milk	Act Dghtrs Birth Years Total In Milk	BREEDING VALUE- AND SELECTION INDICES										
						Milk	BFat	Prot	BF%	Prot%	UdHealth	Fert	HLife	EFI	SAINET	
Breed Average :						103	106	106	102	104	95	100	103	101	101	
Herd Average :						106	106	106	98	98	90	93	101	101	101	
1	HRD1166	PROSPECT LANCELOTS KING	8	2014 - 2019	2018 - 2018											
	73702185	ATHUR		5	1	Cow EBVi:	79	87	78	112	107	90	123	92	85	93
	2011	ZAF		2	0	Dghtr EBVi:	95	98	95	103	102	94	108	96	95	98
2	HRG804	OOMSDALE CONNER ET	5	2020 - 2025	2020 - 2025											
	88724091			3	3	Cow EBVi:	97	93	93	98	96	89	110	97	94	97
	2018	USA		1	1	Dghtr EBVi:	104	102	103	96	96	92	96	102	98	100

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	% In- brding BYear	SAI	CYI	FMI	Body	Udder	F&L	BWC	EFI	Milk B	Bfat Ind	Bfat% B	Prot Ind	Prot% B	SCS Ind	Calf Int Ind	Herdlife B	Sire	Dam BYear				
Active Breed Average:			7.23	101	102	102	101	100	101	101	101	36	3.7	0.03	2.0	0.01	-2.3	-0.3	102.7						
				Year of Birth :								2023													
HRG304 96340112		JOYFUL MERCEDES BLINKERS I	11.88	101	104	100	106	101	104	101	106	M 62 25	M 17.4 104	0.23 22	M 6.4 110	0.07 24	M 11.4 111	M 7.0 82	M 100 18	RIVER VALLEY MERCEDES ET	HRG003 2020				
HRG311 96329586		JOYFUL CHIEF FIONA II	9.38	102	101	104	104	102	104	100	105	M 503 26	M 9.2 119	-0.28 24	M 9.1 114	-0.16 26	M 5.5 22	M 8.0 88	M 114 18	JX RIVER VALLEY CHIEF {6} ET	HRG112 2021				
HRG313 96329578		JOYFUL DURABLE BLINKERS III	9.10	101	100	100	103	101	106	102	100	M 71 19	M 0.6 104	-0.05 16	M 1.1 104	-0.03 16	M 4.8 105	M 2.1 100	M 100 13	ROC-BOT DURABLE ET	HRG005 2020				
HRG314 96329560		JOYFUL DURABLE DIMANDA	21.52	103	103	103	101	103	97	100	102	M 55 23	M 2.7 103	0.00 21	M 2.6 105	0.01 21	M -0.7 103	M -3.2 94	M 103 19	ROC-BOT DURABLE ET	HRG017 2020				
HRG318 96577812		JOYFUL DURABLE BLINKERS II	20.82	103	103	102	107	104	105	103	100	M 81 23	M 2.7 104	-0.03 20	M 3.2 105	0.00 20	M 3.7 100	M 2.2 89	M 103 15	ROC-BOT DURABLE ET	HRG119 2021				
				Year of Birth :								2024													
HRG406 96866488		JOYFUL CHOCOCHIP BLINKERS I	4.86	102	103	100	104	108	108	104	96	M-254 26	M 2.3 93	0.28 22	M -6.7 105	0.06 112	M 11.8 24	M 4.4 96	M 110 108	AVONLEA CHOCOCHIP ET	HRG003 2020				
HRG411 97336085		JOYFUL CHOCOCHIP LOBELLIA	4.90	100	99	100	97	103	108	105	91	M-213 27	M-13.4 94	-0.03 23	M-10.3 92	-0.04 23	M 3.1 100	M -1.3 24	M 123 90	AVONLEA CHOCOCHIP ET	HRG507 2015				
				Year of Birth :								2025													
HRG502 98208515		JOYFUL DELTOID BLINKERS II	6.56	101	101	100	101	101	101	103	99	M 25 18	M 2.0 102	0.01 15	M 1.3 105	0.01 16	M -1.0 103	M -0.1 94	M 96 15	TOG DELTOID ET	HRG804 2018				
HRG504 98234305		JOYFUL DURABLE BLINKERS III	9.10	101	100	100	103	101	106	102	100	M 71 19	M 0.6 104	-0.05 16	M 1.1 99	-0.03 17	M 4.8 105	M 2.1 88	M 100 16	ROC-BOT DURABLE ET	HRG005 2020				
HRG505 98925449		JOYFUL DELTOID BOKKIE	8.29	103	103	103	102	106	94	103	105	M 257 22	M 12.9 110	-0.01 19	M 9.9 114	0.00 100	M -3.3 20	M 7.1 96	M 98 18	TOG DELTOID ET	HRG301 2023				
HRG506 98925456		JOYFUL DELTOID PRINCESS	7.55	103	103	103	100	104	94	102	104	M 260 22	M 10.0 110	-0.06 19	M 9.0 112	-0.02 98	M -5.0 20	M 2.8 98	M 97 16	TOG DELTOID ET	HRG219 2022				
HRG507 98987340		JOYFUL CINNAMON BLINKERS I	11.21	107	106	107	103	109	105	102	107	M 449 18	M 17.0 117	-0.11 18	M 13.9 96	-0.06 18	M 0.1 119	M 6.3 93	M 107 10	JX PROGENESIS CINNAMON {6} - ET	HRG310 2023				
HRG508 99021370		JOYFUL DURABLE BLINKERS IV	10.41	101	104	100	106	101	104	101	105	M -11 25	M 15.6 101	0.27 22	M 4.6 116	0.08 23	M 9.8 109	M 5.3 23	M 94 83	ROC-BOT DURABLE ET	HRG003 2020				

Average (heifers in herd Nr heifers (herd)	10.43 13	102	102	102	103	103	103	102	102	104	6.1	0.01	3.5	-0.01	3.5	3.3	103.5
Average (heifers in breed) Nr heifers (breed)	7.52 13919	103	104	103	102	101	102	102	103	66	7.5	0.07	4.0	0.03	-4.7	-0.1	102.4

Selection List

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

*Inbreeding above 6.25% is high!

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

Above breed average
M = MACE (International) breeding value

Top 10% of the breed

Bottom 10% of the breed

G = Genomically enhanced EBV

Animal				Selection Indices									Breeding Values										Pedigree			
	Farmnr Regno	Name	B Year	% In- brd	SAI	CYI	FMI	Body	Udder	F&L	BWC	EFI	EBV Milk	EBV Bfat	EBV Bfat%	EBV Prot	EBV Prot%	EBV Som	EBV Calf Int	EBV Herdlife	B	Sire	Dam	Dam BYr		
1	HRG507 98987340	JOYFUL CINNAMON BLINKERS I	2025	11.21	106.7	106	107	103	109	105	102	107	M 449	M 17.0	-0.11	M 13.9	-0.06	M 0.1	M 6.3	M 107	18	JX PROGENESIS CINNAMON {6} - ET	HRG310	2023		
2	HRG505 98925449	JOYFUL DELTOID BOKKIE	2025	8.29	103.3	103	103	102	106	94	103	105	M 257	M 12.9	-0.01	M 9.9	0.00	M -3.3	M 7.1	M 98	22	TOG DELTOID ET	HRG301	2023		
3	HRG506 98925456	JOYFUL DELTOID PRINCESS	2025	7.55	103.2	103	103	100	104	94	102	104	M 260	M 10.0	-0.06	M 9.0	-0.02	M -5.0	M 2.8	M 97	22	TOG DELTOID ET	HRG219	2022		
4	HRG301 94718012	JOYFUL ENDURANCE BOKKIE	2023	9.17	103.1	102	103	101	109	97	100	105	318	M 9.7	-0.12	7.5	-0.08	M 0.4	M 9.2	M 102	29	JX AHLEM ENDURANCE {4} ET	HRG408	2014		
5	HRG318 96577812	JOYFUL DURABLE BLINKERS II	2023	20.82	102.7	103	102	107	104	105	103	100	M 81	M 2.7	-0.03	M 3.2	0.00	M 3.7	M 2.2	M 103	23	ROC-BOT DURABLE ET	HRG119	2021		
6	HRG314 96329560	JOYFUL DURABLE DIMANDA	2023	21.52	102.5	103	103	101	103	97	100	102	M 55	M 2.7	0.00	M 2.6	0.01	M -0.7	M -3.2	M 103	23	ROC-BOT DURABLE ET	HRG017	2020		
7	HRG112 94381233	JOYFUL WHISTLER FIONA	2021	8.50	102.4	102	104	104	99	102	105	99	304	0.2	-0.26	6.5	-0.09	-4.8	-1.2	114	29	AHLEM WHISTLER ET	HRG901	2019		
8	HRG219 94717998	JOYFUL ENDURANCE PRINCESSII	2022	7.67	102.3	101	103	98	103	97	100	104	338	5.3	-0.21	6.4	-0.11	-3.8	0.7	99	28	JX AHLEM ENDURANCE {4} ET	HRG702	2017		
9	HRG305 96340104	JOYFUL MERCEDES LOBELLIA	2023	9.19	102.2	102	103	99	100	101	103	101	153	4.7	-0.06	3.5	-0.04	-4.2	-2.1	106	23	RIVER VALLEY MERCEDES ET	HRG103	2021		
10	HRG311 96329586	JOYFUL CHIEF FIONA II	2023	9.38	101.9	101	104	104	102	104	100	105	M 503	M 9.2	-0.28	M 9.1	-0.16	M 5.5	M 8.0	M 114	26	JX RIVER VALLEY CHIEF {6} ET	HRG112	2021		
11	HRG119 94381217	JOYFUL WHISTLER BLINKERS I	2021	8.97	101.6	101	102	107	103	103	105	99	160	1.4	-0.12	2.7	-0.06	1.9	3.5	108	28	AHLEM WHISTLER ET	HRG801	2018		
12	HRG406 96866488	JOYFUL CHOCOCHIP BLINKERS I	2024	4.86	101.5	103	100	104	108	108	104	96	M-254	M 2.3	0.28	M -6.7	0.06	M 11.8	M 4.4	M 110	26	AVONLEA CHOCOCHIP ET	HRG003	2020		
13	HRG206 94649076	JOYFUL ENDURANCE BONTROK	2022	8.46	101.3	100	101	102	103	91	100	103	202	6.5	-0.08	4.7	-0.05	-7.3	4.6	96	30	JX AHLEM ENDURANCE {4} ET	HRG707	2017		
14	HRG903 88720180	JOYFUL TIGNISH BOKKIE I	2019	8.11	101.2	99	102	104	100	95	101	103	434	1.5	-0.34	9.3	-0.12	-7.1	5.0	99	29	PROGENESIS TIGNISH 6 ET	HRG408	2014		
15	HRG502 98208515	JOYFUL DELTOID BLINKERS II	2025	6.56	101.0	101	100	101	101	101	103	99	M 25	M 2.0	0.01	M 1.3	0.01	M -1.0	M -0.1	M 96	18	TOG DELTOID ET	HRG804	2018		
16	HRG120 94381225	JOYFUL WHISTLER BLINKERS II	2021	8.18	101.0	99	101	104	102	104	105	96	98	-3.8	-0.16	-1.4	-0.09	M 0.5	M 1.6	M 108	25	AHLEM WHISTLER ET	HRG804	2018		
17	HRG508 99021370	JOYFUL DURABLE BLINKERS IV	2025	10.41	101.0	104	100	106	101	104	101	105	M -11	M 15.6	0.27	M 4.6	0.08	M 9.8	M 5.3	M 94	25	ROC-BOT DURABLE ET	HRG003	2020		
18	HRG304 96340112	JOYFUL MERCEDES BLINKERS I	2023	11.88	100.7	104	100	106	101	104	101	106	M 62	M 17.4	0.23	M 6.4	0.07	M 11.4	M 7.0	M 100	25	RIVER VALLEY MERCEDES ET	HRG003	2020		
19	HRG504 98234305	JOYFUL DURABLE BLINKERS III	2025	9.10	100.7	100	100	103	101	106	102	100	M 71	M 0.6	-0.05	M 1.1	-0.03	M 4.8	M 2.1	M 100	19	ROC-BOT DURABLE ET	HRG005	2020		
20	HRG313 96329578	JOYFUL DURABLE BLINKERS III	2023	9.10	100.7	100	100	103	101	106	102	100	M 71	M 0.6	-0.05	M 1.1	-0.03	M 4.8	M 2.1	M 100	19	ROC-BOT DURABLE ET	HRG005	2020		
21	HRG403 96494620	JOYFUL DURABLE BOKKIE II	2024	10.88	100.6	100	100	106	104	98	99	103	M 117	M 5.7	-0.01	M 4.5	0.00	M 5.8	M 6.7	M 93	20	ROC-BOT DURABLE ET	HRG008	2020		
22	HRG118 94381381	JOYFUL BIONIC PRINCESS I	2021	10.34	100.4	98	101	101	101	101	103	100	356	-6.0	-0.39	7.9	-0.09	3.6	4.1	98	22	RIVER VALLEY BUTTONS BIONIC ET	HRG912	2019		
23	HRG211 94649100	JOYFUL CHIEF BLINKERS	2022	8.42	99.9	99	100	104	102	102	101	102	307	5.6	-0.18	3.9	-0.13	16.6	5.4	100	25	JX RIVER VALLEY CHIEF {6} ET	HRG801	2018		
24	HRG411 97336085	JOYFUL CHOCOCHIP LOBELLIA	2024	4.90	99.6	99	100	97	103	108	105	91	M-213	M-13.4	-0.03	M-10.3	-0.04	M 3.1	M -1.3	M 123	27	AVONLEA CHOCOCHIP ET	HRG507	2015		
25	HRG310 96329552	JOYFUL CHIEF BLINKERS IV	2023	9.30	99.5	98	100	103	103	100	98	106	M 453	M 10.2	-0.22	M 7.2	-0.16	M 10.8	M 12.4	M 105	22	JX RIVER VALLEY CHIEF {6} ET	HRG002	2020		

Selection List

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

*Inbreeding above 6.25% is high!

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

Above breed average
M = MACE (International) breeding value

Top 10% of the breed
Bottom 10% of the breed
G = Genomically enhanced EBV

Animal					Selection Indices								Breeding Values										Pedigree		
	Farmnr Regno	Name	B Year	% In- brd	SAI	CYI	FMI	Body	Udder	F&L	BWC	EFI	EBV Milk	EBV Bfat	EBV Bfat%	EBV Prot	EBV Prot%	EBV Som	EBV Calf Int	EBV Herdlife	B	Sire	Dam	Dam BYr	
26	HRG003 89990824	JOYFUL MACKENZIE BLINKERS	2020	9.09	99.2	103	98	106	100	101	101	108	-26	27.1	0.46	5.4	0.10	14.1	9.8	89	36	MISSISKA MACKENZIE ET	HRG1406	2014	
27	HRG008 91534974	JOYFUL OCTAVIUS BOKKIE	2020	9.15	98.5	97	97	106	104	93	98	105	230	7.3	-0.09	5.3	-0.06	6.1	12.4	88	16	JX LOVES OCTAVIUS {6} ET	HRG408	2014	
28	HRG303 94765690	JOYFUL MERCEDES BLUEBELL	2023	7.20	98.4	98	99	100	98	101	102	101	169	3.1	-0.10	3.1	-0.06	6.2	6.5	100	19	RIVER VALLEY MERCEDES ET	HRG915	2019	
29	HRG005 91534990	JOYFUL GLISTEN BLINKERS III	2020	8.82	98.4	97	98	99	98	108	103	97	140	-3.0	-0.18	-1.5	-0.12	4.0	3.3	101	11	JX BUTTERCREST GLISTEN {4} ET	HRG804	2018	
30	HRG312 96329537	JOYFUL DURABLE FIONA	2023	7.27	98.3	99	98	98	95	106	101	99	^M -65	^M -4.0	-0.01	^M -0.9	0.03	^M 6.8	^M -5.0	^M 96	22	ROC-BOT DURABLE ET	HRG1510	2015	
31	HRG002 89990816	JOYFUL GLISTEN BLINKERS	2020	8.84	97.9	96	98	102	98	102	101	101	201	2.1	-0.15	2.5	-0.09	6.1	7.5	96	14	JX BUTTERCREST GLISTEN {4} ET	HRG801	2018	
32	HRD3102 78638335	HYDEAWAY VALENTINO MERIDA	2013	7.15	97.6	94	97	98	100	100	103	95	131	-8.5	-0.26	-4.6	-0.16	-7.2	7.2	101	30	ALL LYNNS LOUIE VALENTINO-ET	HRD0832	2008	
33	HRG803 88724109	JOYFUL DURABLE PRINCESS II	2018	6.38	97.5	97	96	102	99	99	99	99	-94	-1.7	0.05	-2.9	0.01	10.2	-0.2	89	22	ROC-BOT DURABLE ET	HRD460	2014	
34	HRG804 88724091	JOYFUL CONNER BLINKERS I	2018	5.34	97.1	96	96	99	96	106	101	94	-137	-11.4	-0.08	-9.2	-0.07	4.2	-5.3	97	12	OOMSDALE CONNER ET	HRD1166	2011	
35	HRD1166 73702185	HYDEAWAY BRIAR	2011	4.30	93.2	93	91	94	88	106	105	85	-637	-19.2	0.27	-22.5	0.05	3.0	-12.4	92	26	PROSPECT LANCELOTS KING ATHUR	HRD08004	2008	

Logix Conformation and Udder Traits : Bulls

Only sires of classified cows are indicated.

Bull Information								Selection Indices										Conformation Breeding Values										Udder Breeding Values										S.A. daughters/ herds	
Bull Name	SAI	Body	Udder	Feet & Legs	BWC	EFI	B	WH Wither Height	CW Chest Width	BD Body Depth	DS Dairy Strengt	RA Rum p	TW Thurl Width	RLS RearLe gs	RLR RearLe gs	BS Bone Structu	FA Foot Angle	FUA ForeUdd er	RUH RearUdd er Height	RUW RearUdd er Width	UC Udder Cleft	UD Udder Depth	FTP Front Teat	RTP Rear Teat	TL Teat Length	B B	A A	C C	E E										
AHLEM WHISTLER ET	104	108	106	104	108	99	78	109	103	105	103	102	108	102	100	105	100	105	104	102	105	101	103	103	109	78	M	67	8										
ALL LYNNS LOUIE VALENTINO-ET	104	110	110	98	105	102	99	106	106	103	105	103	107	100	108	99	99	104	110	108	106	100	105	103	91	99	L	G	1065	60									
JX AHLEM ENDURANCE {4} ET	106	101	109	96	102	109	71	105	97	100	102	97	105	93	106	97	101	106	104	103	103	103	106	102	102	71	M	36	5										
JX BUTTERCREST GLISTEN {4} ET	105	98	113	99	106	99	55	107	99	98	96	104	104	95	107	99	101	110	106	103	100	110	108	106	96	55	M	3	1										
JX LOVES OCTAVIUS {6} ET	104	107	106	100	95	116	60	105	98	98	109	98	105	105	96	96	103	109	111	103	100	102	94	96	107	60	M	1	1										
OOMSDALE CONNER ET	103	109	104	91	118	96	59	118	102	107	100	108	118	109	96	100	93	106	110	107	94	111	85	88	95	59	M	2	1										
PROGENESIS TIGNISH 6 ET	103	101	92	95	104	105	73	105	106	99	100	99	100	103	93	98	99	96	95	98	103	98	93	95	105	73		46	4										
PROSPECT LANCELOTS KING ATHUR	96	105	88	109	103	91	70	97	108	105	100	105	97	107	98	107	101	94	92	95	89	94	96	98	95	70		42	2										
RIVER VALLEY BUTTONS BIONIC ET	104	103	111	104	105	100	60	109	102	99	103	97	107	101	100	103	101	110	107	103	106	105	103	105	110	60	M	8	3										
RIVER VALLEY MERCEDES ET	103	107	103	107	102	103	62	103	104	104	105	99	103	105	97	105	102	108	104	96	103	100	99	100	102	62	M	18	6										
ROC-BOT DURABLE ET	103	106	104	104	101	102	64	103	100	101	104	100	107	99	104	100	100	107	103	100	103	103	100	99	101	64	M	22	6										

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
HRD1166	HYDEAWAY BRIAR	93	94	88	106	105	85	100	105	99	93	100	96	102	97	106	101	96	89	90	91	99	92	93	98
HRD3102	HYDEAWAY VALENTINO MERIDA	98	98	100	100	103	95	104	96	101	99	99	104	103	101	100	95	104	102	100	100	100	99	97	89
HRG002	JOYFUL GLISTEN BLINKERS	98	102	98	102	101	101	104	98	100	101	106	101	102	101	99	102	97	100	100	102	99	100	100	100
HRG005	JOYFUL GLISTEN BLINKERS III	98	99	98	108	103	97	104	98	98	98	105	103	101	101	100	103	98	99	101	101	100	100	99	98
HRG008	JOYFUL OCTAVIUS BOKKIE	98	106	104	93	98	105	101	99	102	104	101	103	102	99	97	98	102	109	106	102	100	99	99	103
HRG112	JOYFUL WHISTLER FIONA	102	104	99	102	105	99	106	103	104	101	101	101	101	96	103	99	98	98	99	100	97	100	100	105
HRG118	JOYFUL BIONIC PRINCESS I	100	101	101	101	103	100	99	105	102	100	95	100	98	99	103	100	104	102	101	101	101	100	101	103
HRG119	JOYFUL WHISTLER BLINKERS I	102	107	103	103	105	99	106	103	105	103	102	102	101	99	103	100	101	102	102	103	99	101	101	104
HRG206	JOYFUL ENDURANCE BONTROK	101	102	103	91	100	103	103	96	101	102	100	103	100	100	99	97	100	102	102	103	98	101	99	101
HRG303	JOYFUL MERCEDES BLUEBELL	98	100	98	101	102	101	101	101	101	100	99	101	101	100	101	99	100	100	99	100	100	99	99	99
HRG803	JOYFUL DURABLE PRINCESS II	97	102	99	99	99	99	102	98	100	102	102	102	99	100	99	100	97	97	99	100	98	100	99	99
HRG804	JOYFUL CONNER BLINKERS I	97	99	96	106	101	94	102	97	99	99	104	101	100	101	100	101	96	97	98	100	99	99	98	99
HRG903	JOYFUL TIGNISH BOKKIE I	101	104	100	95	101	103	104	100	101	103	100	103	103	100	98	99	98	105	104	103	98	98	99	100
Average								103	100	101	100	101	101	101	100	101	100	99	100	100	100	99	99	99	100

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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
HRG310	453	HRG003	27.1	HRG003	0.46	HRG903	9.3	HRG003	0.10	HRG206	-7.3	HRD1166	-12.4	HRG112	114	HRG301	103	HRG003	103	HRG112	104	HRG310	97,7	HRG003	108,1
HRG903	434	HRG310	10.2	HRD1166	0.27	HRG118	7.9	HRD1166	0.05	HRD3102	-7.2	HRG804	-5.3	HRG119	108	HRG112	102	HRG301	102	HRG305	103	HRG008	98,2	HRG310	106,0
HRG118	356	HRG301	9.7	HRG803	0.05	HRG301	7.5	HRG312	0.03	HRG903	-7.1	HRG312	-5.0	HRG120	108	HRG219	102	HRG305	102	HRG301	103	HRG403	99,4	HRG301	104,7
HRG219	338	HRG008	7.3	HRG312	-0.01	HRG310	7.2	HRG803	0.01	HRG112	-4.8	HRG305	-2.1	HRG305	106	HRG305	102	HRG112	102	HRG219	103	HRG803	99,4	HRG008	104,5
HRG301	318	HRG206	6.5	HRG403	-0.01	HRG112	6.5	HRG403	0.00	HRG305	-4.2	HRG112	-1.2	HRG310	105	HRG119	102	HRG119	101	HRG903	102	HRG219	99,8	HRG219	103,5
HRG211	307	HRG403	5.7	HRG305	-0.06	HRG219	6.4	HRG305	-0.04	HRG219	-3.8	HRG803	-0.2	HRG301	102	HRG206	101	HRG219	101	HRG119	102	HRG301	100,2	HRG403	103,2
HRG112	304	HRG211	5.6	HRG206	-0.08	HRG003	5.4	HRG206	-0.05	HRG301	0.4	HRG219	0.7	HRD3102	101	HRG903	101	HRG403	100	HRG118	101	HRG206	100,4	HRG206	102,9
HRG008	230	HRG219	5.3	HRG804	-0.08	HRG008	5.3	HRG119	-0.06	HRG120	0.5	HRG120	1.6	HRG005	101	HRG120	101	HRG206	100	HRG206	101	HRG312	100,6	HRG903	102,8
HRG206	202	HRG305	4.7	HRG008	-0.09	HRG206	4.7	HRG303	-0.06	HRG119	1.9	HRG005	3.3	HRG303	100	HRG403	101	HRG120	99	HRG120	101	HRG003	100,7	HRG211	101,9
HRG002	201	HRG303	3.1	HRG303	-0.10	HRG403	4.5	HRG008	-0.06	HRD1166	3.0	HRG119	3.5	HRG211	100	HRG118	100	HRG312	99	HRG310	100	HRG002	101,0	HRG303	101,0

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
HRD1166	-637	HRD1166	-19.2	HRG118	-0.39	HRD1166	-22.5	HRD1166	-22.50	HRG211	16.6	HRG008	12.4	HRG008	88	HRD1166	93	HRD1166	93	HRD1166	91	HRD1166	105	HRD1166	85,4
HRG804	-137	HRG804	-11.4	HRG903	-0.34	HRG804	-9.2	HRG804	-9.20	HRG003	14.1	HRG310	12.4	HRG803	89	HRG804	97	HRD3102	94	HRG803	96	HRG112	105	HRG804	93,7
HRG803	-94	HRD3102	-8.5	HRD3102	-0.26	HRD3102	-4.6	HRD3102	-4.60	HRG310	10.8	HRG003	9.8	HRG003	89	HRG803	97	HRG804	96	HRG804	96	HRG119	105	HRD3102	95,0
HRG312	-65	HRG118	-6.0	HRG112	-0.26	HRG803	-2.9	HRG803	-2.90	HRG803	10.2	HRG301	9.2	HRD1166	92	HRD3102	98	HRG002	96	HRD3102	97	HRG120	105	HRG120	96,2
HRG003	-26	HRG312	-4.0	HRG310	-0.22	HRG005	-1.5	HRG005	-1.50	HRG312	6.8	HRG002	7.5	HRG403	93	HRG002	98	HRG005	97	HRG008	97	HRG305	103	HRG005	97,4
HRG120	98	HRG120	-3.8	HRG219	-0.21	HRG120	-1.4	HRG120	-1.40	HRG303	6.2	HRD3102	7.2	HRG206	96	HRG312	98	HRG008	97	HRG002	98	HRG005	103	HRG312	98,5
HRG403	117	HRG005	-3.0	HRG211	-0.18	HRG312	-0.9	HRG312	-0.90	HRG008	6.1	HRG403	6.7	HRG312	96	HRG005	98	HRG803	97	HRG003	98	HRD3102	103	HRG119	98,7
HRD3102	131	HRG803	-1.7	HRG005	-0.18	HRG002	2.5	HRG002	2.50	HRG002	6.1	HRG303	6.5	HRG002	96	HRG303	98	HRG118	98	HRG005	98	HRG118	103	HRG803	99,1
HRG005	140	HRG112	0.2	HRG120	-0.16	HRG119	2.7	HRG119	2.70	HRG403	5.8	HRG211	5.4	HRG804	97	HRG008	98	HRG303	98	HRG312	98	HRG303	102	HRG112	99,3
HRG305	153	HRG119	1.4	HRG002	-0.15	HRG303	3.1	HRG303	3.10	HRG804	4.2	HRG903	5.0	HRG118	98	HRG003	99	HRG310	98	HRG303	99	HRG211	101	HRG118	99,7

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
HRG311	503	HRG304	17.4	HRG406	0.28	HRG507	13.9	HRG508	0.08	HRG506	-5.0	HRG314	-3.2	HRG411	123	HRG507	107	HRG507	106	HRG507	107	HRG314	99,7	HRG507	107,5
HRG507	449	HRG507	17.0	HRG508	0.27	HRG505	9.9	HRG304	0.07	HRG505	-3.3	HRG411	-1.3	HRG311	114	HRG505	103	HRG304	104	HRG311	104	HRG311	100,0	HRG304	105,6
HRG506	260	HRG508	15.6	HRG304	0.23	HRG311	9.1	HRG406	0.06	HRG502	-1.0	HRG502	-0.1	HRG406	110	HRG506	103	HRG508	104	HRG506	103	HRG508	100,6	HRG311	105,1
HRG505	257	HRG505	12.9	HRG502	0.01	HRG506	9.0	HRG314	0.01	HRG314	-0.7	HRG504	2.1	HRG507	107	HRG318	103	HRG505	103	HRG505	103	HRG304	101,5	HRG508	105,0
HRG318	81	HRG506	10.0	HRG314	0.00	HRG304	6.4	HRG502	0.01	HRG507	0.1	HRG313	2.1	HRG318	103	HRG314	103	HRG506	103	HRG314	103	HRG313	101,7	HRG505	104,8
HRG504	71	HRG311	9.2	HRG505	-0.01	HRG508	4.6	HRG505	0.00	HRG411	3.1	HRG318	2.2	HRG314	103	HRG311	102	HRG318	103	HRG318	102	HRG504	101,7	HRG506	104,1
HRG313	71	HRG314	2.7	HRG411	-0.03	HRG318	3.2	HRG318	0.00	HRG318	3.7	HRG506	2.8	HRG313	100	HRG406	102	HRG406	103	HRG304	100	HRG507	102,1	HRG314	101,8
HRG304	62	HRG318	2.7	HRG318	-0.03	HRG314	2.6	HRG506	-0.02	HRG313	4.8	HRG406	4.4	HRG304	100	HRG502	101	HRG314	103	HRG502	100	HRG506	102,3	HRG318	100,3
HRG314	55	HRG406	2.3	HRG504	-0.05	HRG502	1.3	HRG313	-0.03	HRG504	4.8	HRG508	5.3	HRG504	100	HRG508	101	HRG311	101	HRG313	100	HRG505	102,7	HRG313	99,7
HRG502	25	HRG502	2.0	HRG313	-0.05	HRG313	1.1	HRG504	-0.03	HRG311	5.5	HRG507	6.3	HRG505	98	HRG313	101	HRG502	101	HRG504	100	HRG318	102,7	HRG504	99,7

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
HRG406	-254	HRG411	-13.4	HRG311	-0.28	HRG411	-10.3	HRG406	0.06	HRG406	11.8	HRG311	8.0	HRG508	94	HRG411	100	HRG411	99	HRG406	100	HRG411	104,5	HRG411	91,1
HRG411	-213	HRG504	0.6	HRG507	-0.11	HRG406	-6.7	HRG411	-0.04	HRG304	11.4	HRG505	7.1	HRG502	96	HRG313	101	HRG504	100	HRG508	100	HRG406	104,3	HRG406	96,2
HRG508	-11	HRG313	0.6	HRG506	-0.06	HRG504	1.1	HRG508	0.08	HRG508	9.8	HRG304	7.0	HRG506	97	HRG304	101	HRG313	100	HRG411	100	HRG502	103,0	HRG502	99,4
HRG502	25	HRG502	2.0	HRG313	-0.05	HRG313	1.1	HRG502	0.01	HRG311	5.5	HRG507	6.3	HRG505	98	HRG504	101	HRG502	101	HRG504	100	HRG318	102,7	HRG504	99,7
HRG314	55	HRG406	2.3	HRG504	-0.05	HRG502	1.3	HRG314	0.01	HRG313	4.8	HRG508	5.3	HRG313	100	HRG508	101	HRG311	101	HRG313	100	HRG505	102,7	HRG313	99,7
HRG304	62	HRG314	2.7	HRG411	-0.03	HRG314	2.6	HRG304	0.07	HRG504	4.8	HRG406	4.4	HRG304	100	HRG502	101	HRG314	103	HRG502	100	HRG506	102,3	HRG318	100,3
HRG504	71	HRG318	2.7	HRG318	-0.03	HRG318	3.2	HRG504	-0.03	HRG318	3.7	HRG506	2.8	HRG504	100	HRG406	102	HRG406	103	HRG304	100	HRG507	102,1	HRG314	101,8
HRG313	71	HRG311	9.2	HRG505	-0.01	HRG508	4.6	HRG313	-0.03	HRG411	3.1	HRG318	2.2	HRG318	103	HRG311	102	HRG318	103	HRG318	102	HRG313	101,7	HRG506	104,1
HRG318	81	HRG506	10.0	HRG314	0.00	HRG304	6.4	HRG318	0.00	HRG507	0.1	HRG313	2.1	HRG314	103	HRG314	103	HRG506	103	HRG314	103	HRG504	101,7	HRG505	104,8
HRG505	257	HRG505	12.9	HRG502	0.01	HRG506	9.0	HRG505	0.00	HRG314	-0.7	HRG504	2.1	HRG507	107	HRG318	103	HRG505	103	HRG505	103	HRG304	101,5	HRG508	105,0

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								