

Boerboel Genetic Evaluation

SA Stud Book
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PAERYSTRAAT 52
HILLCREST
WELLINGTON
7655



Kennel Number: 697724



Estimated Breeding Values (EBVs)

Litter size and conformation traits are influenced by many genes, with every gene making a small contribution to the expression of the trait. These traits are, however, also influenced by physiological and physical environmental factors, for example the age and sex of the animal, the feeding and management the animal received and year x season effects. It is therefore not possible to know what the animal's genetic potential for the trait is by merely using the measurement.

With BLUP (*Best Linear Unbiased Prediction*) methodology an animal's genetic potential is predicted by making use of the genetic parameters (heritabilities and genetic correlations) of the breed, pedigree information, as well as the measurements of the animal as deviation from the average of the animals that were measured with the animal. Adjustments are made for differences in sex, age, classifier, management and year x season effects to ensure that fair comparisons are made amongst the animals. These predictions are called **EBVs (Estimated Breeding Values)** which indicates the animal's genetic potential for the specific trait and predicts the type of progeny that the animal will breed.

Pedigree information determines the genetic level at which the animal enters the genetic evaluation, it links the information of all relatives together and it is used to determine the genetic ranking of the breed. For young animals that were not yet measured, mid-parent EBVs are estimated, which are the average of the EBVs of the sire and dam. These breeding values are still inaccurate and can change a lot when more information (measurements) is included in subsequent genetic evaluations.

Breeding values therefore enables a breeder to compare his/her animals genetically to one another, as well as to all other animals of the breed. This Report gives a summary of the genetic levels of the active males and females of the relevant breeder in comparison to that of the breed for linearly classified traits and litter size. The genetic change that occurred over time can also easily be seen.

Breeding Value Indices (EBVi)

For easy interpretation, EBVs are standardised and expressed relative to the average (100) of the active animals of the breed, using 12 as standard deviation (SD). This means that an EBV of 100 is equal to the active average of the breed, and more or less 50% of the animals will have EBVi's of between 90 and 110, which indicates an average animal. Only 0.5% of the EBVi's will be lower than 64 and 0.5% will be higher than 136. Higher EBVi's indicate better genetic potential for the trait.

Accuracy

EBVs are published with an **accuracy value (%)**, which indicates how much info was available for the estimation of the EBV and with how much trust it can therefore be applied. Factors that influence the accuracy include heritability, completeness and correctness of pedigree information, number of own and measured relatives and the size of the group in which the animal was measured. When an accuracy of 85% and more is reached, the EBV should not change significantly with the inclusion of more information in subsequent genetic evaluations.

Kennel and Breed Averages: The different traits' averages of the breeder's active animals are compared to those of the breed in the Kennel and Breed Average Graphs and Tables. The breeder can therefore easily see for which traits the animals are above or below the average of the breed.

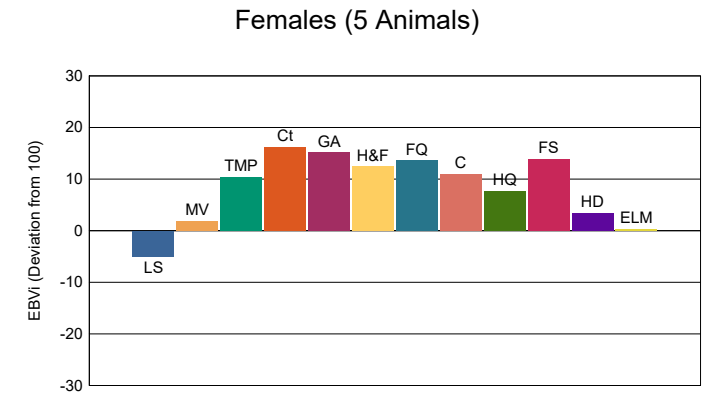
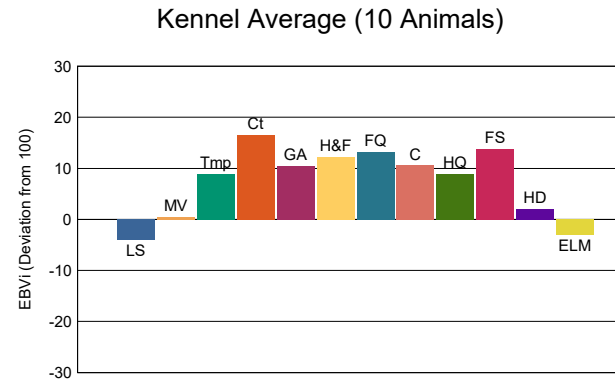
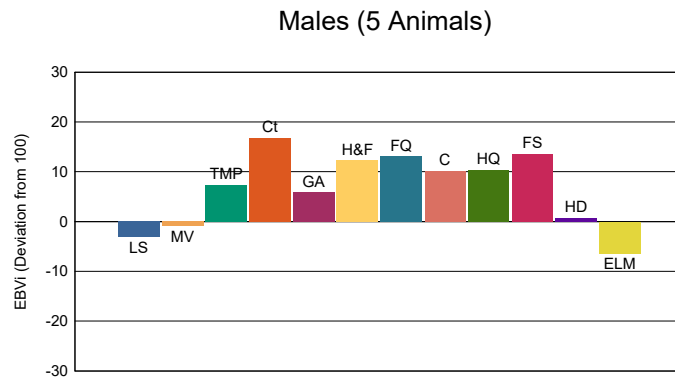
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

Inbreeding: Inbreeding is the mating of related animals and is widely viewed as being harmful. The danger of inbreeding lies there in that it can gradually decrease fertility and survivability – a phenomenon known as inbreeding depression. It can cause lower conception rates, more abortions, more stillborn and weak offspring and a higher susceptibility to diseases. Indications in dogs include a low litter size as well as problems relative to fertility, such as invisible heat, behavioural problems when mating and low sperm quality. Overall, reduced litter size most likely reflects inbreeding depression in several traits, both physiological and behavioural, as well as a high frequency of non-viable embryos due to lethal alleles. Generally, the effects of inbreeding can become noticeable at a value of 6.25%, therefore it is generally recommended that individuals should have inbreeding coefficients of less than 6.25%. Breeders should therefore avoid matings causing inbreeding of more than 6.25% in the progeny. The theoretical maximum inbreeding coefficient is 50%. However, it should be noted that not all inbred animals show signs of inbreeding depression.

The data used in this evaluation was obtained from LOGIX from linear classifications that were done by the Breeder Society. All possible attempts have been made to present the information correctly. SA Stud Book does not accept responsibility for the use and interpretation of the information presented on animals in this publication.

Genetic Levels

Kennel Average relative to Breed Average, where Breed Average is indicated as 0



Average Breeding Value Indices (EBVi) where Breed Average = 100

Trait	All Animals	Males	Females
Litter size (LS)	96	97	95
Movement (Mv)	100	99	102
Temperament (Tmp)	109	107	110
Coat (Ct)	117	117	116
General Appearance	110	106	115
Head & Face (H&F)	112	112	112
Front Quarter (FQ)	113	113	114
Centre (C)	111	110	111
Hind Quarter (HQ)	109	110	108
Final Score (FS)	114	114	114
Hip Health (HH)	102	101	103
Elbow Health (ELM)	97	94	100

Inbreeding

Notes

Inbreeding primarily leads to decreased fertility, low survivability of pups and low disease resistance.

Inbreeding coefficients are calculated for all animals of the breed and indicates the probability that two genes of a pair are the same due to a common ancestor in the pedigree of the animal.

The adverse effects of inbreeding can be observed from 6.25% onwards.

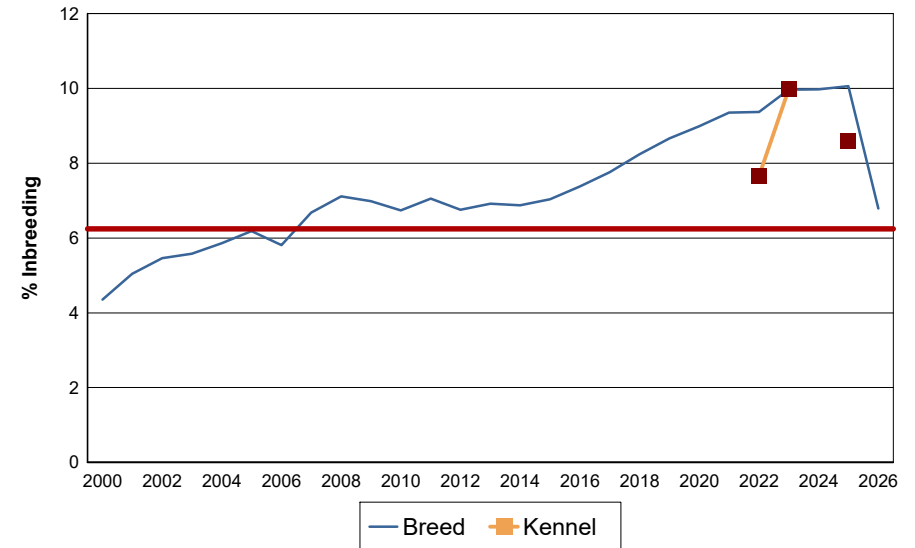
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients are therefore conservative indicators of the level of inbreeding.

Incomplete or incorrect pedigree information can be reported to SA Stud Book via the Breed Society.

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%

Rate of Inbreeding

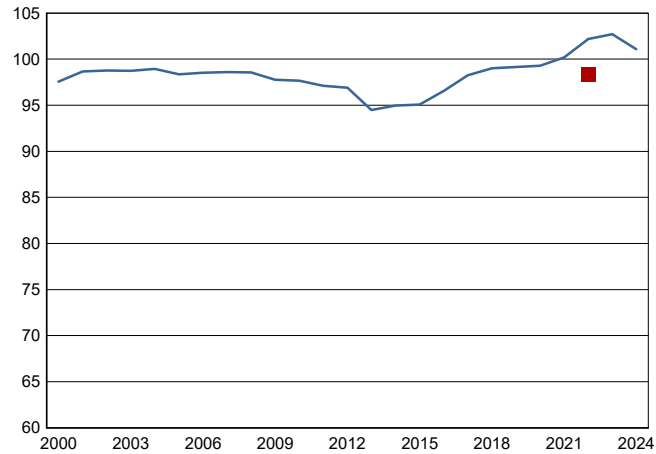


Inbreeding Levels

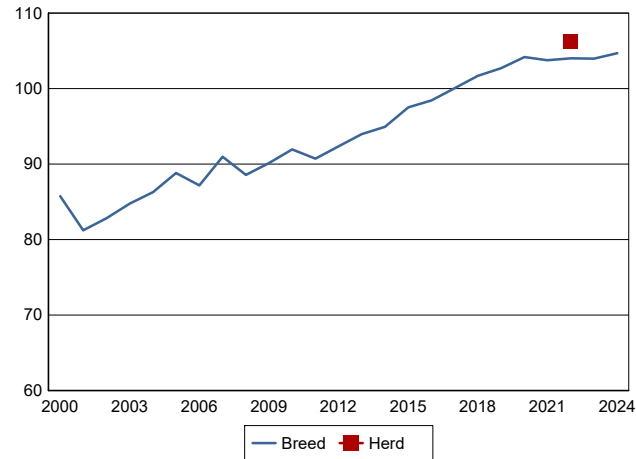
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	10	49007	5	25141	5	23857	6	3371	6	6287
Average Inbreeding	8.44	8.49	8.31	8.46	8.56	8.53	10.79	8.01	9.10	8.00
Number inbred	10	48727	5	24990	5	23728	6	24990	6	23728
Number >6.25% Inbr.	9	30600	5	15537	4	15058	5	15537	6	15058

Genetic Trends

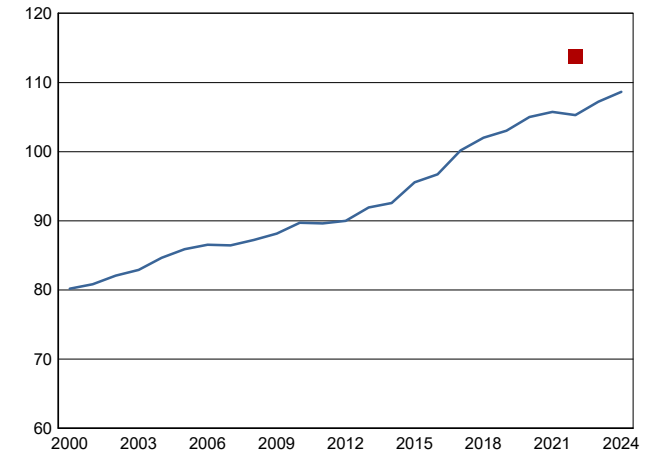
Litter Size



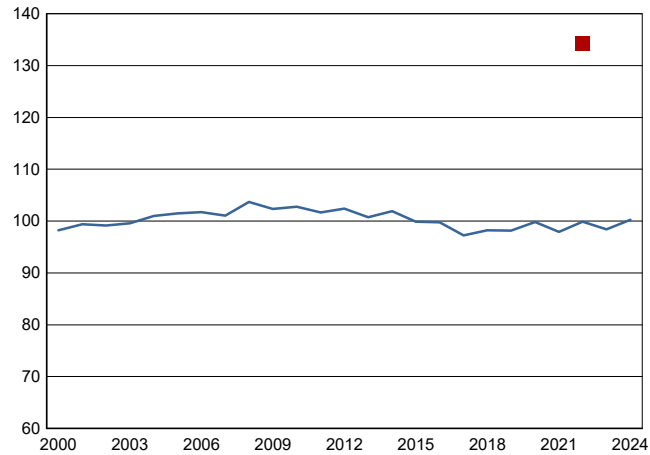
Movement



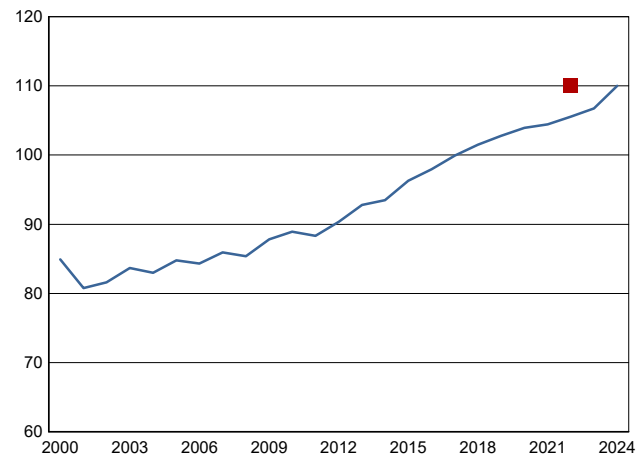
Temperament



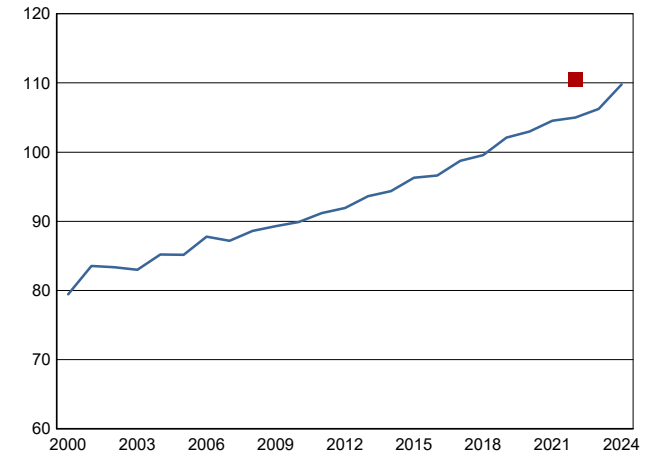
Coat



General Appearance

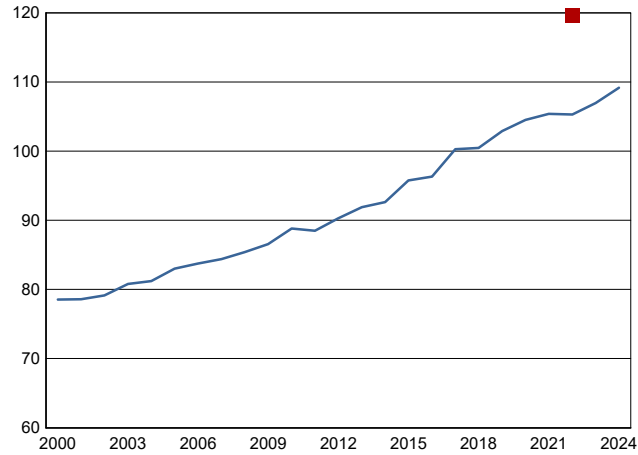


Head & Face

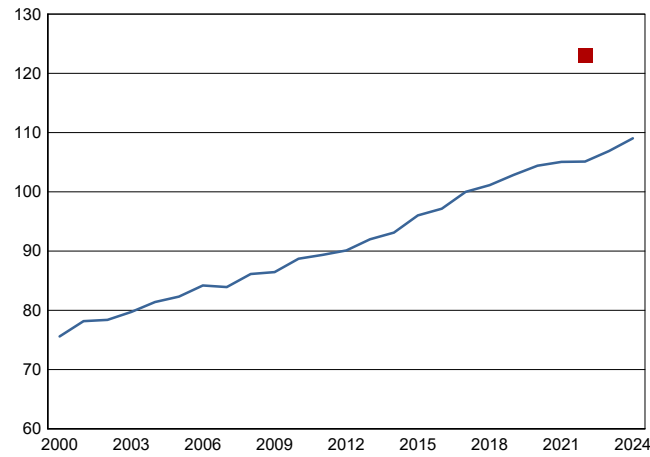


Genetic Trends

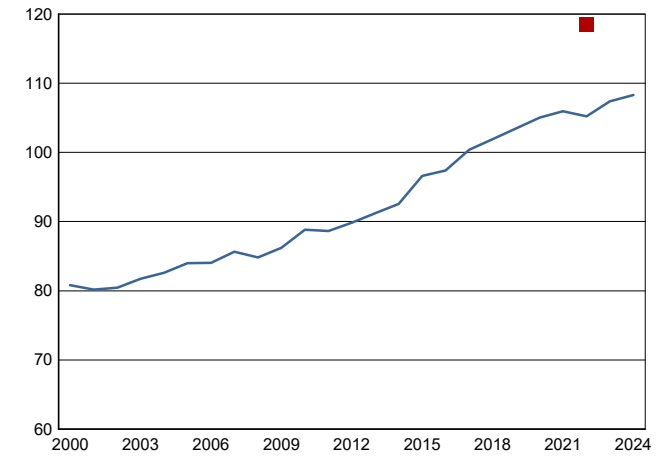
Front Quarter



Centre

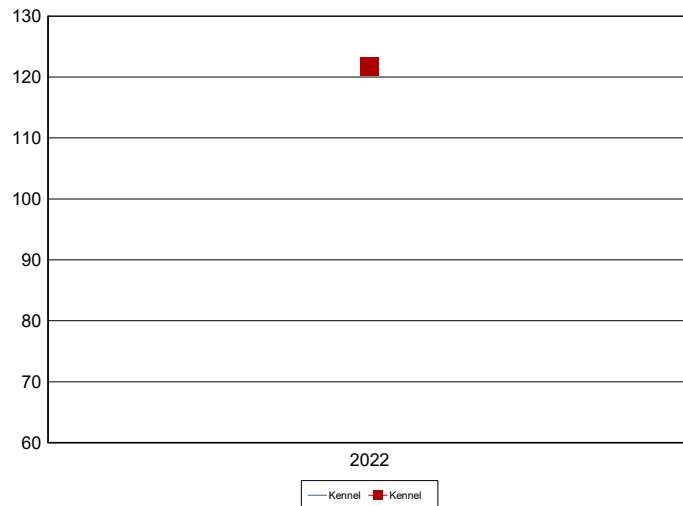


Hind Quarter

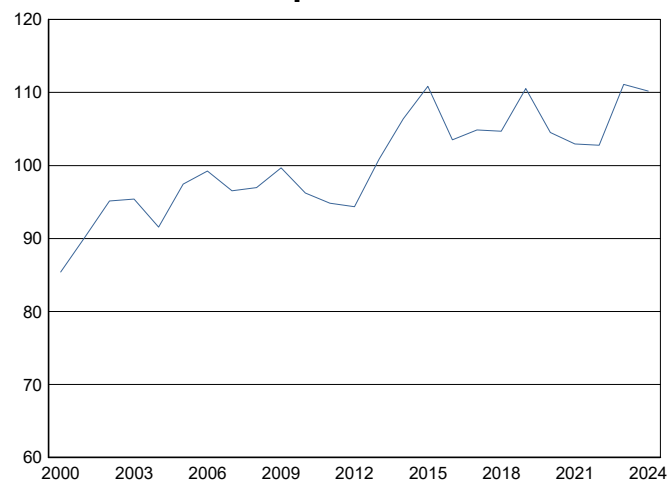


Final Score & Health Traits

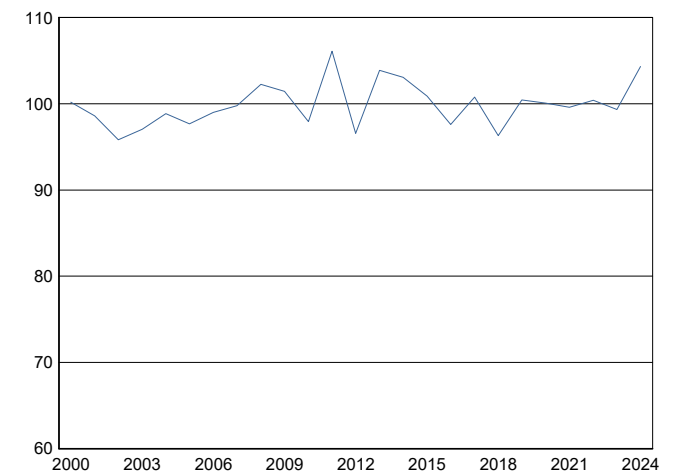
Final Score



Hip Health



Elbow Health



Estimated Breeding Value Indices (EBVi's)

Males

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move- ment	Tempe- rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Litters	Progeny Kennels		Hips	Elbows	
TYPICAL DANGER		TELEOIS SUPER KARDO	7.66	100	86	98	104	112	130	111	117	121	122	111	121						
	2022	SCOUSER NAIROBI		5	5	5	40	5	59	39	57	41	44	47	52						
TYPICAL COOPER		TELEOIS SUPER KARDO	7.66	100	86	98	109	112	130	107	108	116	119	117	119						
	2022	SCOUSER NAIROBI		5	5	5	32	5	47	31	46	33	35	38	42						
INCREDI BOEL MENEER		KADIMA TROMPIE	9.03	91	107	99	79	84	69	79	98	98	83	95	87						
	2024	LEGRA SAARTJIE		5	5	5	34	5	46	33	46	35	37	39	42						
TYPICAL ODIN		TYPICAL BARACK	8.60	106	94	95	102	114	128			116	114								
	2025	KAWIE ARIEL		5	5	5	18	5	35		34	20	22	25	30						
TYPICAL SIMBA		TYPICAL BARACK	8.60	106	94	95	102	114	128			116	114								
	2025	KAWIE ARIEL		5	5	5	18	5	35		34	20	22	25	30						

Estimated Breeding Value Indices (EBVi's)

Females

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information

Inbreed

Health

Fertility

General

Appearance

Progeny :

Appraisal

Health

Progeny with litters

Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Progeny Litters	Appraisal Progeny Kennels	Health Hips Elbows	Progeny with litters
GILLMORE MULAN	2022	BODINGTON BOERBOEL THE IMPOSTOR GILLMORE ROXY	5.37	88 5	107 5	106 5	89 40	102 5	111 58	113 40	100 57	114 41	109 44	93 46	102 52				
TYPICAL XENA I	2023	DELATRO JANO TYPICAL LAURA	9.98	106 5	99 5	92 5	110 23	109 5	120 40	112 22	107 39	111 24	114 26	111 29	114 34				
TYPICAL XENA	2023	DELATRO JANO TYPICAL LAURA	9.98	106 5	99 5	92 5	110 23	109 5	120 40	112 22	107 39	111 24	114 26	111 29	114 34				
KAWIE ARIEL	2024	PENINSULA TAURUS ROBERTS PRINCESS NEZUKO	8.90	112 5	103 5	91 5	99 43	118 9	103 61	123 42	128 60	116 44	106 47	109 49	119 55	4	1		
TYPICAL AFENI	2025	TYPICAL BARACK KAWIE ARIEL	8.60	106 5	94 5	95 5	102 18	114 5	128 35		119 34	116 20	114 22	114 25	121 30				

Estimated Breeding Value Indices (EBVi's)

Sires

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Sire Information		Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Litters	Progeny Kennels	Hips	Elbows	
TELEOIS SUPER KARDO		KLOPDISSELBOOM SUPER KHAN	10.92	95	92	92	103	99	134	99	107	108	114	106	112	19	5	8		3
	2020	TELEOIS BROOKLYN		5	5	5	52	14	70	51	68	53	55	58	64					
DELATRO JANO		DELATRO X' WINSLO	17.68	111	112	85	115	104	117	117	111	106	106	101	110	34	5	9	1	1
	2020	DELATRO FEMKE		5	5	5	48	5	64	47	63	49	51	54	59					
BODINGTON BOERBOEL THE IMPOSTOR		TARGUS RAM	13.93	62	111	93	74	93	91	106	99	100	101	78	90	25	4	6		2
	2020	BODINGTON BOERBOEL PHOEBE		5	5	29	58	33	71	57	71	59	60	63	67					
KADIMA TROMPIE		BREKER FANUS	5.06	82	104	114	71	84	80	92	90	94	86	102	87	32	6	11		5
	2021	KADIMA TRUVELO		5	5	27	62	37	76	61	75	63	65	67	72					
PENINSULA TAURUS		MIDDELPOS BBD GAMKA	9.47	120	110	97	68	110	114	117	130	119	100	103	115	52	10	13	1	1
	2021	ZKR DUCHES		5	5	18	62	35	76	61	75	62	65	67	72					
TYPICAL BARACK		TELEOIS SUPER KARDO	7.66	100	86	98	105	111	152	109	110	116	122	120	123	9	2			
	2022	SCOUSER NAIROBI		5	5	5	39	5	56	38	55	40	42	45	50					

Estimated Breeding Value Indices (EBVi's)

Dams

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move- ment	Tempe- r ament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
SCOUSER NAIROBI	2020	KLEIN WITWAL BBD SHOT CALLER	8.62	106	80	104	115	125	127	115	109	123	124	127	125	5	1	4			3
		KLOPDISSELBOOM DORIS		5	5	12	48	19	64	47	63	49	51	54	59			3			1
LEGRA SAARTJIE	2021	LEGRA SPOOK	9.73	101	111	84	87	84	58	66	106	101	80	88	86	24	3	4			2
		MIDDELPOS BBD ROZAY		5	5	5	47	12	61	46	61	47	50	52	57			3			1
GILLMORE ROXY	2021	KLEIN SANDFONTEIN FRANKENSTEIN	11.92	114	102		98	111	116	118	113	124	116	110	116	7	1	2			1
		GROOT HART GYPSY		5	5		35	5	49	34	48	35	37	40	44			2			1
TYPICAL LAURA	2022	TELEOIS SUPER KARDO	7.66	100	86	98	105	114	123	107	104	116	121	122	118	3	1				
		SCOUSER NAIROBI		5	5	5	40	5	58	39	57	41	43	46	52						
ROBERTS PRINCESS NEZUKO	2022	SUMMIT CREED	7.80	103	96	86	128	127	86	128	114	112	119	121	120	9	1	3			1
		KINGSTON SARABI		5	5	5	42	8	59	41	58	43	45	48	53			3			1
KAWIE ARIEL	2024	PENINSULA TAURUS	8.90	112	103	91	99	118	103	123	128	116	106	109	119	4	1				
		ROBERTS PRINCESS NEZUKO		5	5	5	43	9	61	42	60	44	47	49	55						

