

Boerboel Genetic Evaluation

SA Stud Book
February 2026

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666 LANGSTRAAT
KALBASKRAAL
CAPE TOWN
7302



Kennel Number: 693696



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.

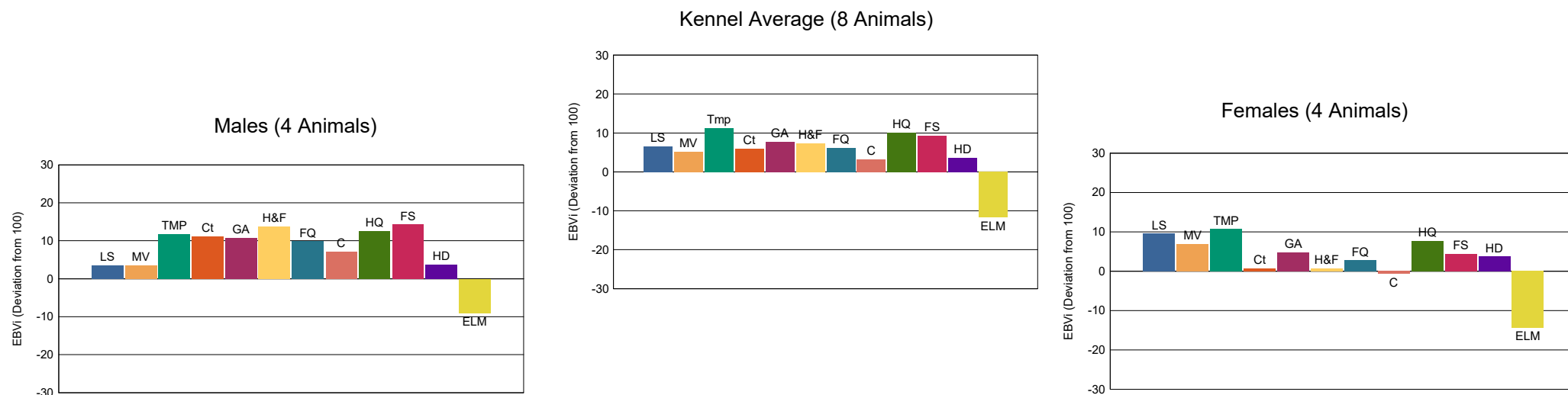
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	107	104	110
Movement (Mv)	105	104	107
Temperament (Tmp)	111	112	111
Coat (Ct)	106	111	101
General Appearance	108	111	105
Head & Face (H&F)	107	114	101
Front Quarter (FQ)	106	110	103
Centre (C)	103	107	99
Hind Quarter (HQ)	110	113	108
Final Score (FS)	109	114	104
Hip Health (HH)	104	104	104
Elbow Health (ELM)	88	91	86

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.

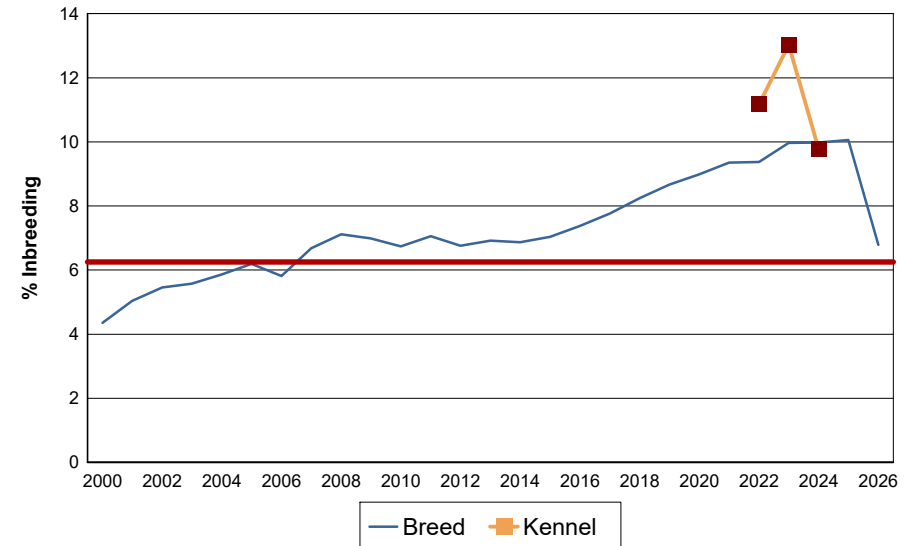
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

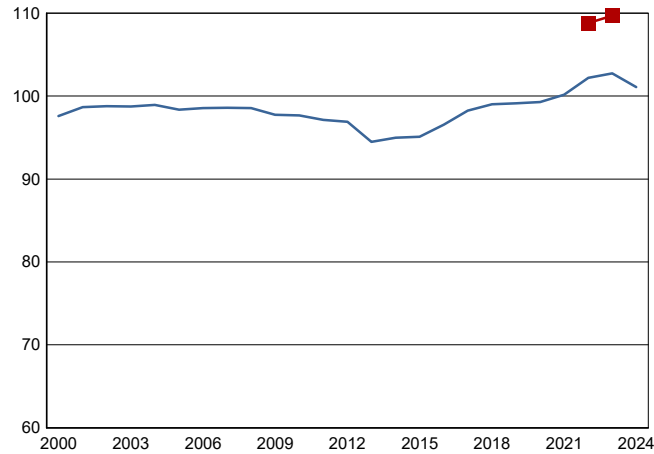


Inbreeding Levels

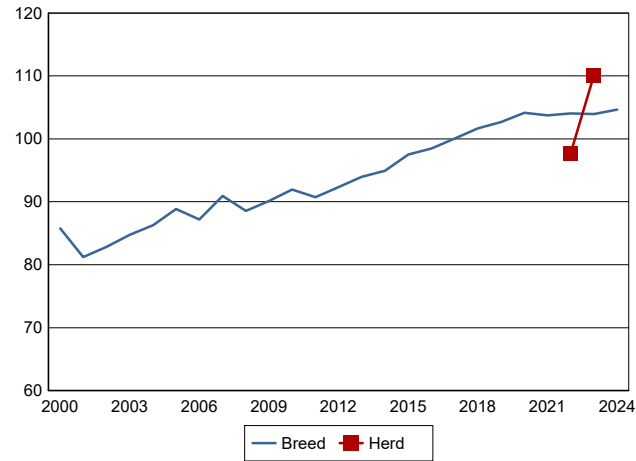
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	8	49007	4	25141	4	23857	6	3371	6	6287
Average Inbreeding	9.65	8.49	9.00	8.46	10.29	8.53	5.97	8.01	8.92	8.00
Number inbred	8	48727	4	24990	4	23728	6	24990	6	23728
Number >6.25% Inbr.	6	30600	3	15537	3	15058	2	15537	5	15058

Genetic Trends

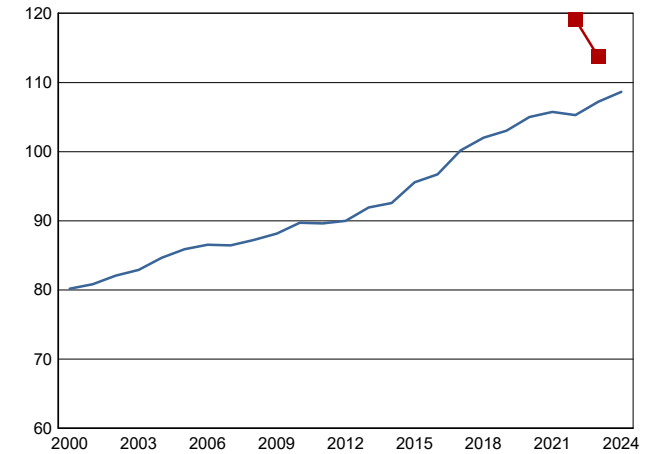
Litter Size



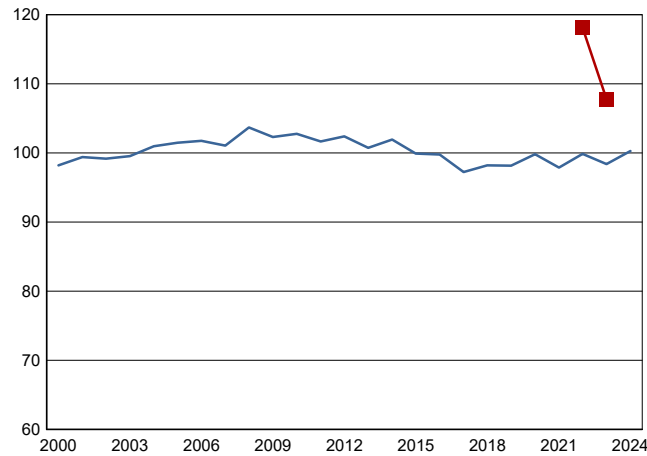
Movement



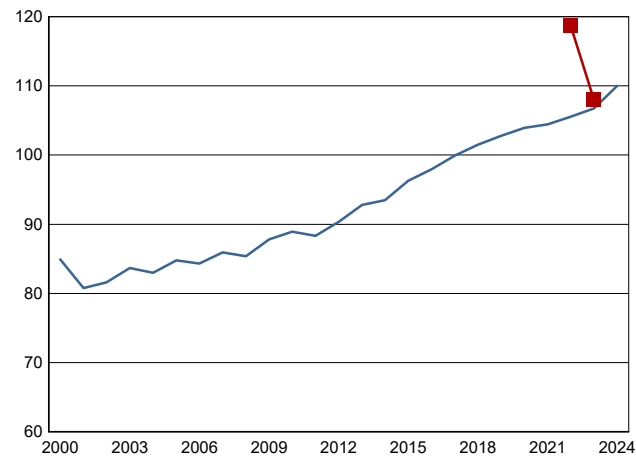
Temperament



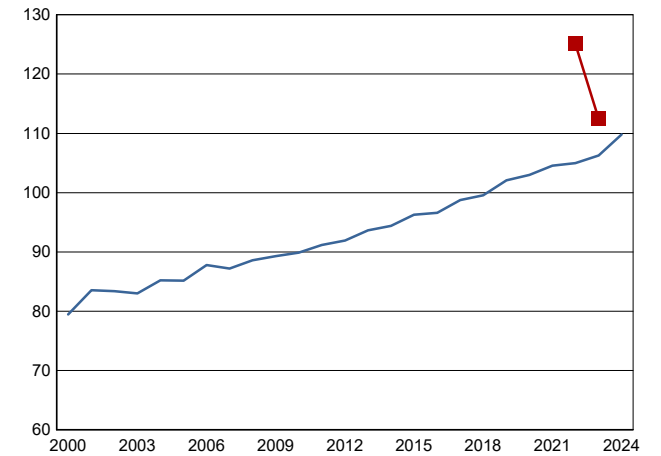
Coat



General Appearance

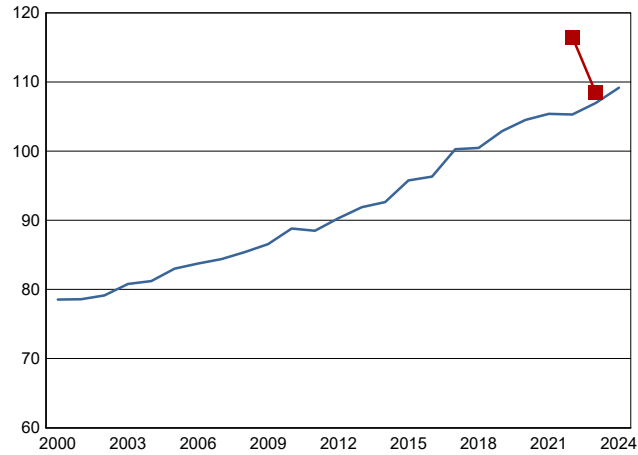


Head & Face

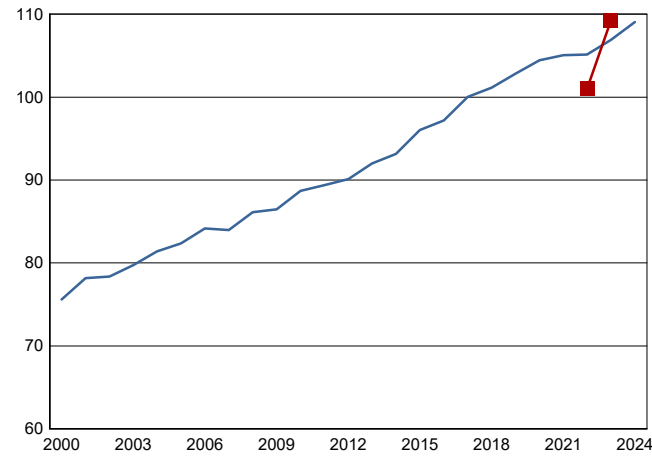


Genetic Trends

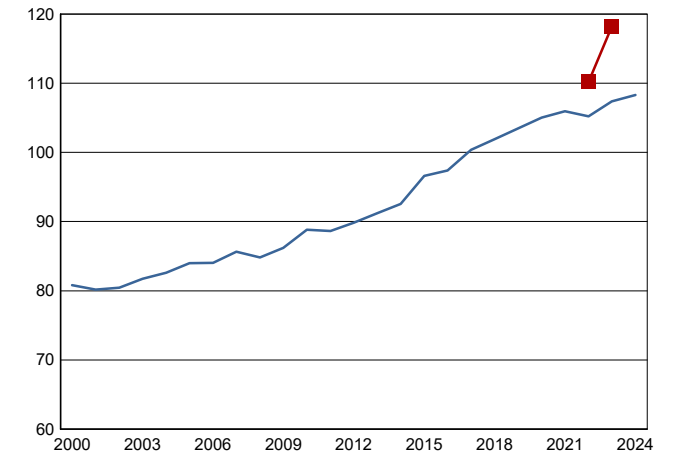
Front Quarter



Centre

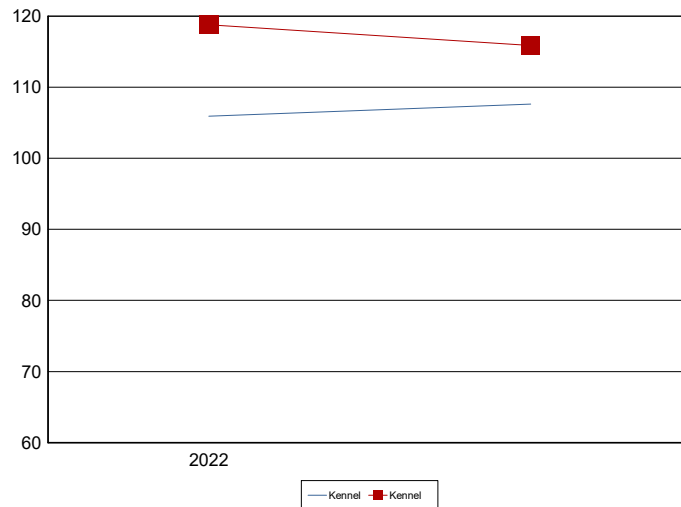


Hind Quarter

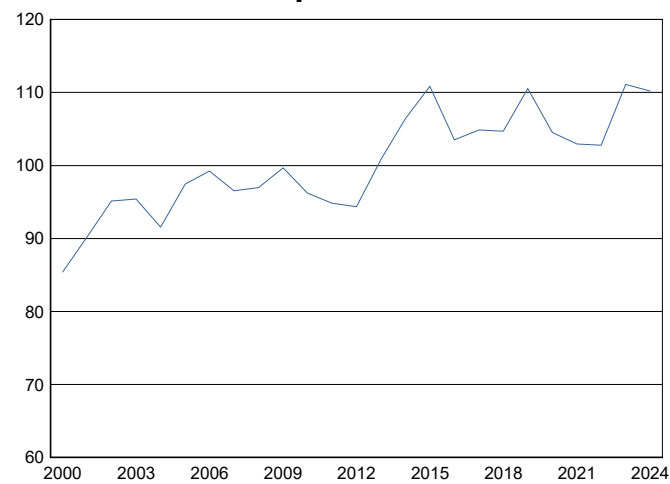


Final Score & Health Traits

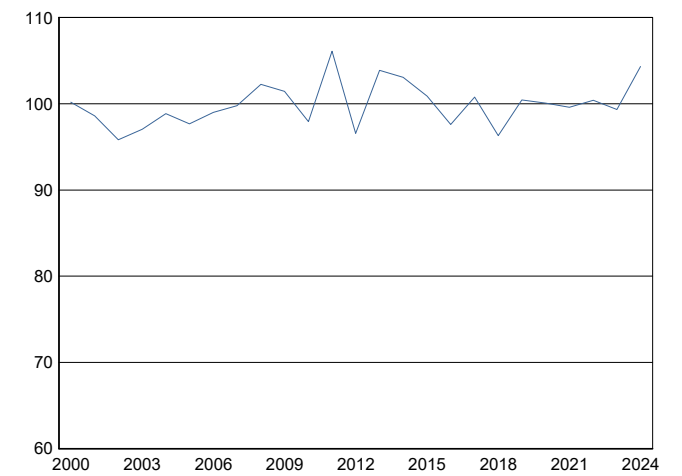
Final Score



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	
NARCO MAX		KLOPDISSELBOOM SUPER KHAN	8.69	96	87	94	109	98	108	97	96	100	107	102	102						
	2020	KLOPDISSELBOOM BABY CHOCOLATES		5	5	5	31	5	45	29	44	31	34	36	41						
RAINAISANCE STRYKA		DUMAS MATRIX	5.89	102	95	95	102	115	109	114	111	110	112	123	117			2			
	2021	AFRIKA ALEXANDERIA		5	5	23	50	25	65	49	64	50	52	55	60	11	1	2			
OWGEE RUGER		PAMPOENKRAAL APOCALYPSE	11.17	102	98	109	98	119	118	119	125	117	101	110	119						
	2022	AFRIKA CHANEL 3		5	5	15	42	13	58	43	57	43	45	48	52	2	1				
OWGEE GALACTUS II		PAMPOENKRAAL APOCALYPSE	10.25	115	84	116	105	115	110	113	123	114	109	114	119						
	2024	ARMANDUS LARA		5	5	13	38	10	50	38	49	39	41	43	46						

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	Litters	Progeny Kennels	Hips	Elbows	
ARMANDUS LARA		MES RUBENSTEIN	11.16	111	73	124	120	113	103	102	112	107	107	115	114	24	3	5			3
	2020	LOMBARD SUPERIOR ALASKA		8	25	44	60	40	73	60	72	61	63	65	69			5			1
EMPIRE LOCKDOWN MERCEDES		RAINAISANCE LUCIOUS LION	5.81	95	89	95	98	98	77	94	57	79	77	86	70	2	1				
	2021	GENESIS BBD ANIKA		5	5	5	38	5	58	37	57	39	42	45	51						
OWGEE COCO		PAMPOENKRAAL APOCALYPSE	11.17	102	98	109	101		113	116	121	116	104	113	118						
	2022	AFRIKA CHANEL 3		5	5	15	36		47	35	46	36	38	40	43						
OWGEE STORM		RAINAISANCE STRYKA	13.03	107	84		109	113	109	108	113	109	109	118	116						
	2023	ARMANDUS LARA		5	5		43	8	60	42	59	43	46	49	54						

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	
RAINAISANCE LUCIOUS LION	2016	RAINAISANCE HITLER	3.83	85	90	88	105	93	87	88	70	76	79	84	76	6	1	1		1
		RAINAISANCE ROSIE		5	5	5	27	5	43	26	42	28	30	33	38					
MES RUBENSTEIN	2016	GROENBERG BBD RAMBO	4.08	111	59	133	122	134	109	99	101	114	104	128	116	314	52	101	21	20
		MES LIZE		58	67	73	86	71	92	86	92	87	88	89	90					
KLOPDISSELBOOM SUPER KHAN	2017	KLOPDISSELBOOM BEAST	6.86	92	87	87	113	102	120	97	93	106	114	106	105	10	3	6		5
		RAINAISANCE FIELA		5	5	17	52	21	67	51	66	53	55	58	62					
DUMAS MATRIX	2018	ELEVATION AROS	5.20	88	95	88	95	125	73	147	124	117	129	110	121	69	14	25		14
		DUMAS NIKITA		5	5	30	70	44	83	69	82	71	73	75	79					
PAMPOENKRAAL APOCALYPSE	2020	MIDDELPOS BBD BRUCE ALMIGHTY	9.95	118	96	108	91	117	116	125	133	120	112	114	125	63	6	16		3
		KLEIN SANDFONTEIN LISA MARI		5	9	23	61	33	76	61	76	62	64	67	72					
RAINAISANCE STRYKA	2021	DUMAS MATRIX	5.89	102	95	95	102	115	109	114	111	110	112	123	117	11	1	2		
		AFRIKA ALEXANDERIA		5	5	23	50	25	65	49	64	50	52	55	60					

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-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips Elbows	
LOMBARD SUPERIOR ALASKA	2017	AFRIKA RAMBOMAX	5.52	112	86	99	115	97	87	109	115	106	117	103	110	24	2	11	1 1	10
		AFRIKA TARA 1		17	31	41	62	39	76	61	75	63	65	67	72			11		2
KLOPDISSELBOOM BABY CHOCOLATES	2018	KLOPDISSELBOOM KLEIN BASIE	10.93	101	88	101	105	93	95	98	99	93	99	99	98	16	2	2		1
		KLOPDISSELBOOM BEKKIES		5	5	15	39	5	55	38	54	40	43	45	50			1		1
AFRIKA ALEXANDERIA	2019	MES RUBENSTEIN	9.07	116	94	102	114	117	117	96	105	112	104	125	115	10	2	2		4
		AFRIKA GRACIE		14	27	49	51	33	62	51	61	52	53	55	58			2		2
GENESIS BBD ANIKA	2019	KLEIN SANDFONTEIN HUEY	8.76	105	87	103	94	110	108	109	95	110	99	104	102	12	2	1		1
		PADIACHY RUBY		5	20	31	48	28	58	47	58	48	50	52	55			1		1
ARMANDUS LARA	2020	MES RUBENSTEIN	11.16	111	73	124	120	113	103	102	112	107	107	115	114	24	3	5		3
		LOMBARD SUPERIOR ALASKA		8	25	44	60	40	73	60	72	61	63	65	69			5		1
AFRIKA CHANEL 3	2020	MES RUBENSTEIN	8.08	86	100	110	110	120	111	106	109	111	97	111	111	4	1	1		1
		AFRIKA MILLA V		21	34	47	52	35	60	52	60	52	54	55	58			1		1

