

Boerboel Genetic Evaluation

SA Stud Book

February 2026

MR E. WINDELL

36 SACREMENTO PARK
COLORADO PARK
WELTEVREDEN VALLEY CAPE TOWN
7785



Kennel Number: 611427



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.

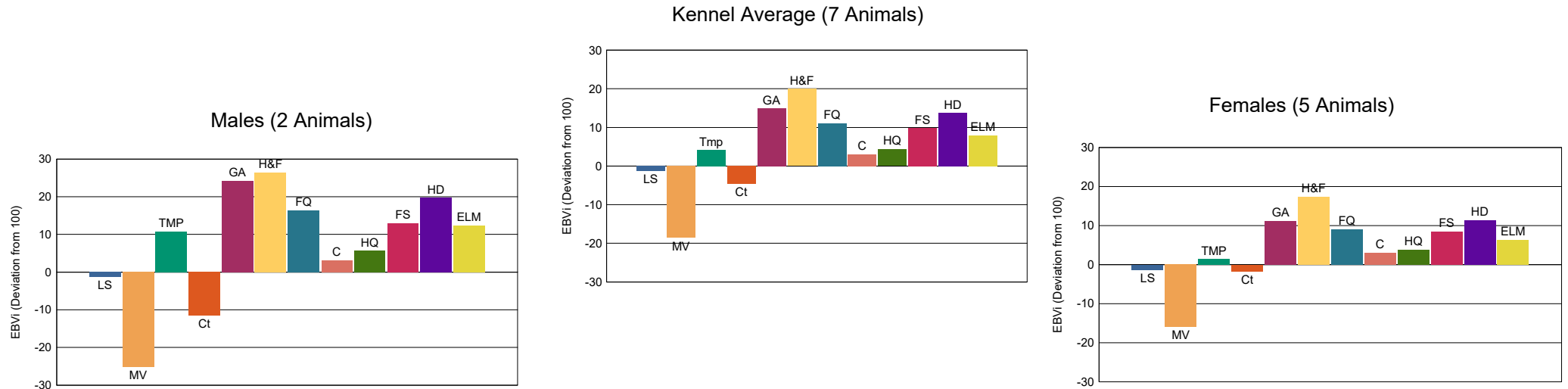
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	99	99	99
Movement (Mv)	81	75	84
Temperament (Tmp)	104	111	101
Coat (Ct)	95	88	98
General Appearance	115	124	111
Head & Face (H&F)	120	126	117
Front Quarter (FQ)	111	116	109
Centre (C)	103	103	103
Hind Quarter (HQ)	104	106	104
Final Score (FS)	110	113	109
Hip Health (HH)	114	120	111
Elbow Health (ELM)	108	112	106

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.

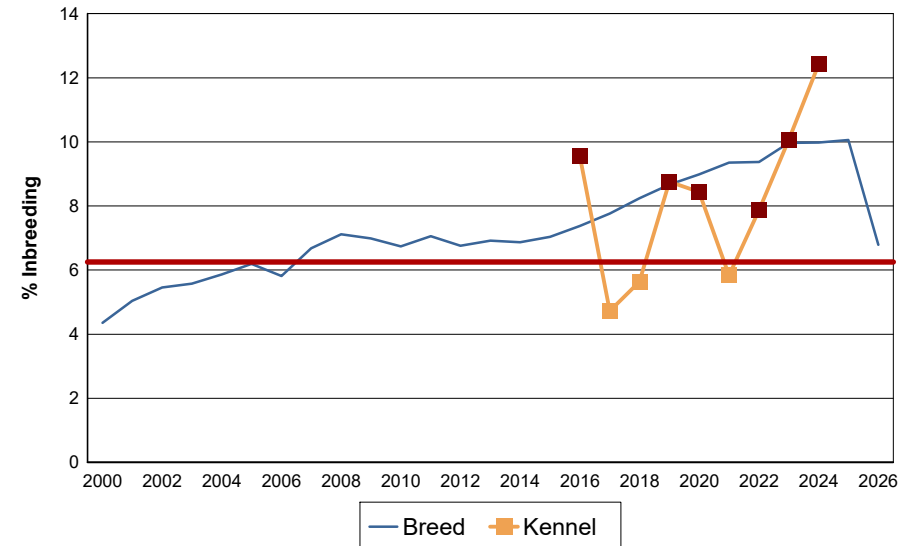
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

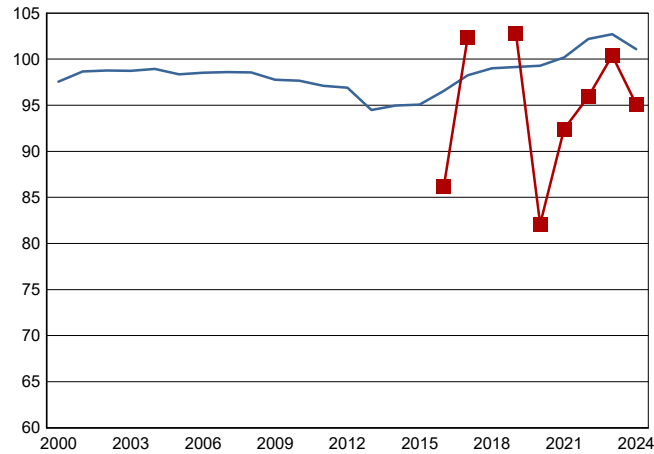


Inbreeding Levels

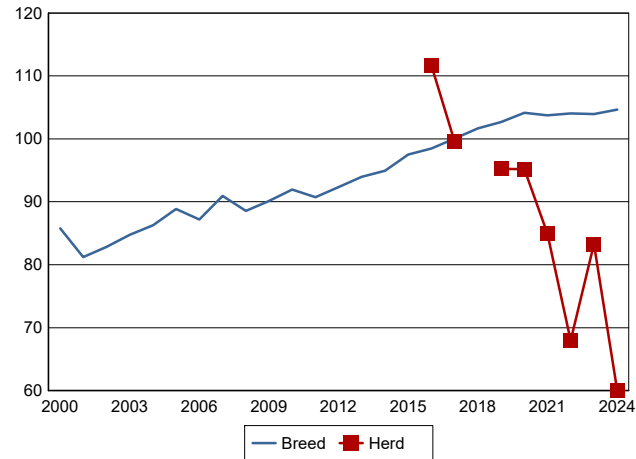
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	7	49007	2	25141	5	23857	4	3371	6	6287
Average Inbreeding	9.32	8.49	10.79	8.46	8.73	8.53	10.39	8.01	7.87	8.00
Number inbred	7	48727	2	24990	5	23728	4	24990	6	23728
Number >6.25% Inbr.	7	30600	2	15537	5	15058	3	15537	2	15058

Genetic Trends

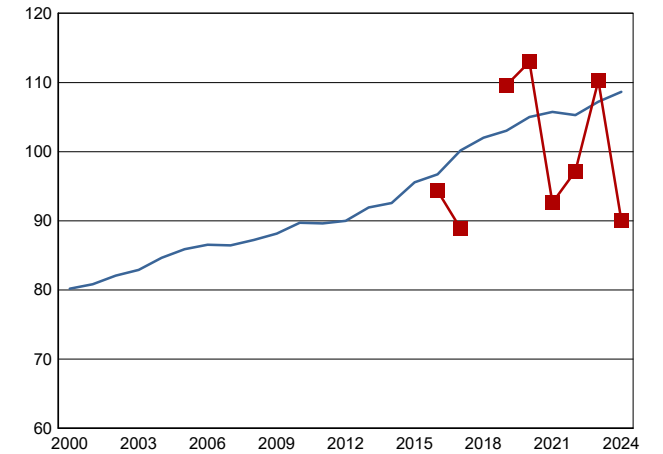
Litter Size



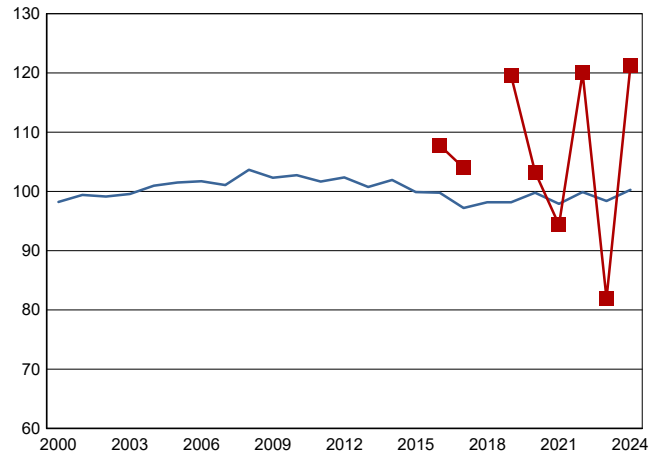
Movement



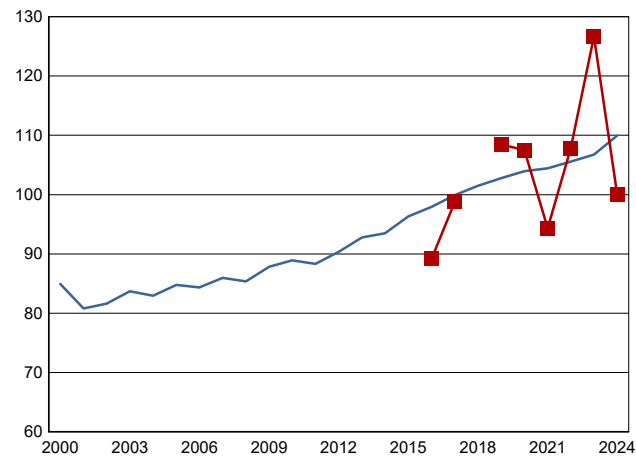
Temperament



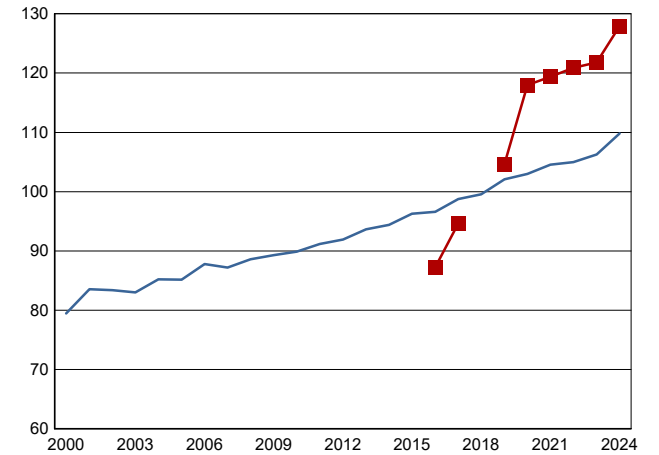
Coat



General Appearance

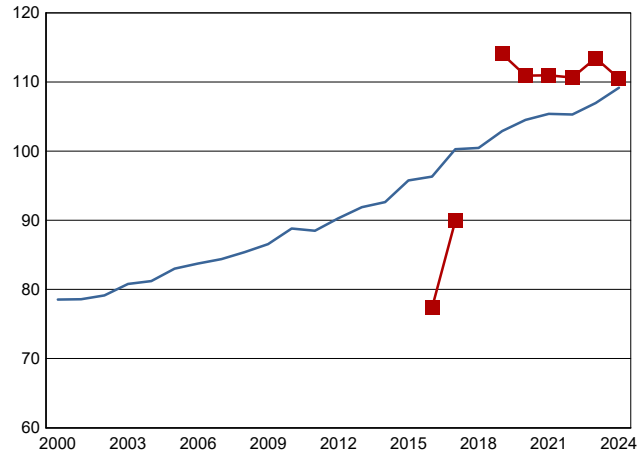


Head & Face

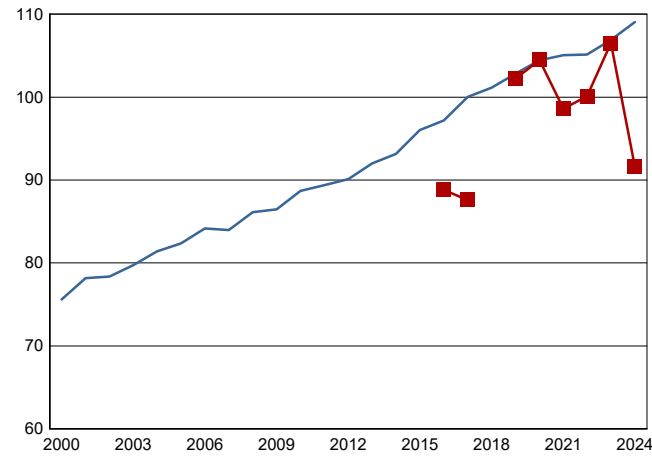


Genetic Trends

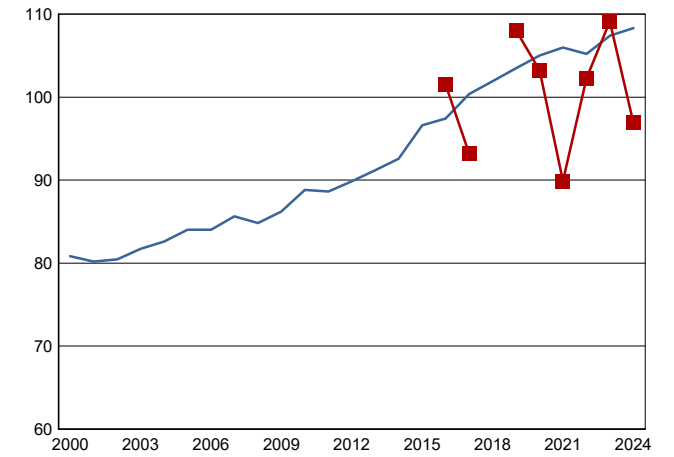
Front Quarter



Centre

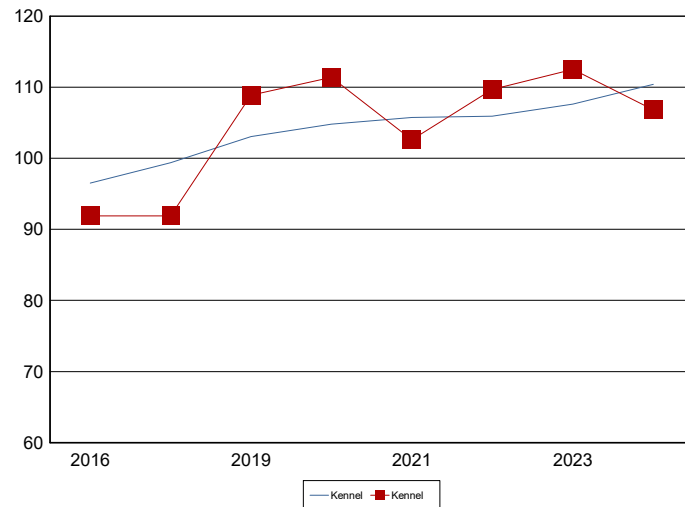


Hind Quarter

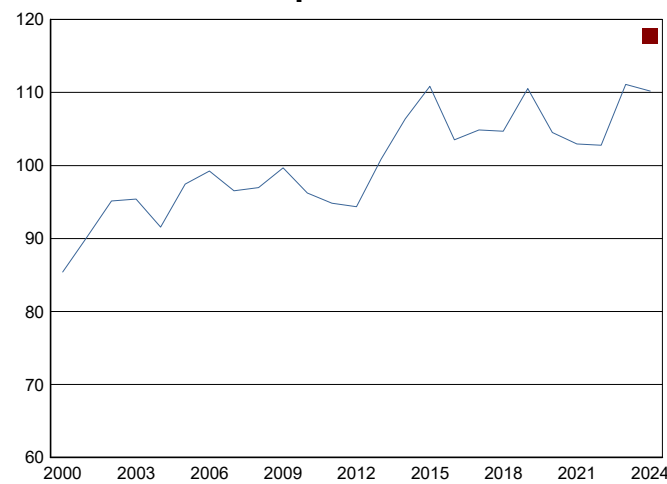


Final Score & Health Traits

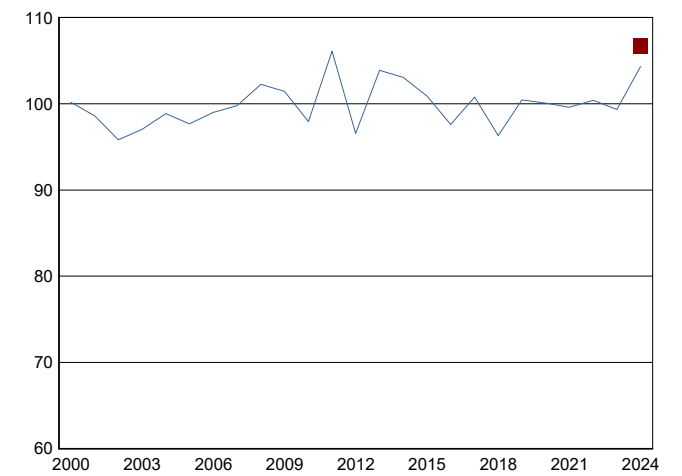
Final Score



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	
PENINSULA TAURUS		MIDDELPOS BBD GAMKA	9.47	120	110	97	68	110	114	117	130	119	100	103	115	52	10	13	1	1	5
	2021	ZKR DUCHES		5	5	18	62	35	76	61	75	62	65	67	72			11			4
GENESIS BBD KING GEORGE		PENINSULA TAURUS	12.10	119	115	100	82	112	63	132	123	114	106	108	111	4	1				
	2023	PAMPOENKRAAL PIPPI LONGSTOCKINGS		5	5	5	45	7	62	44	61	46	48	51	56						

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	
PAMPOENKRAAL PIPPI LONGSTOCKINGS	2022	MIDDELPOS BBD BRUCE ALMIGHTY	7.44	118	119	104	101	108	81	129	118	110	114	113	115	9	2	3			2
		KLEIN SANDFONTEIN LARA CROFT		5	10	24	48	20	62	47	61	49	51	53	57			2			1
GENESIS BBD MARY JANE	2022	MIDDELPOS BBD BRUCE ALMIGHTY	7.87	115	103	93	62	93	131	104	128	114	101	103	113	10	2	1	1	1	
		PADIACHY RUBY		5	5	19	51	23	67	50	66	52	54	57	62			1			
GENESIS BBD CASSIA	2023	PENINSULA TAURUS	8.03	106	101	97	78	101	106	103	123	113	98	98	108						
		GENESIS BBD GRACE KELLY		5	5	5	29	5	41	28	41	29	31	34	37						
SUMMIT HONEY	2023	GATEKEEPER MOSCOW	8.22	98	93	99	93	95	94	93	98	95	92	94	94						
		SUMMIT DENALI		5	5	5	26	5	39	26	38	27	29	31	35						
GENESIS BBD QUEEN CHARLOTTE	2023	PENINSULA TAURUS	12.10	119	115	100	86	110	81	127	120	114	110	112	113						
		PAMPOENKRAAL PIPPI LONGSTOCKINGS		5	5	5	45	7	62	44	61	46	48	51	56						

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		
MIDDELPOS BBD BRUCE ALMIGHTY	2017	AFRIKA LEO 5	5.84	127	106	106	86	104	108	119	125	112	109	111	117	48	8	27	2	2	16
		MIGHTY AFRIKA ZELLIE		32	49	37	69	44	82	68	81	70	72	74	78						
MIDDELPOS BBD GAMKA	2017	AFRIKA LEO 5	18.20	138	139	100	78	117	89	106	133	133	109	106	118	137	29	57	5	6	38
		MIDDELPOS BBD DIXIE		34	50	56	81	60	89	80	89	81	83	84	87						
PENINSULA TAURUS	2021	MIDDELPOS BBD GAMKA	9.47	120	110	97	68	110	114	117	130	119	100	103	115	52	10	13	1	1	5
		ZKR DUCHES		5	5	18	62	35	76	61	75	62	65	67	72						
GATEKEEPER MOSCOW	2021	ELEVATION DAX	8.04	101	81	104	103	106	95	101	105	103	99	104	104	10	3	4			
		GATEKEEPER SILVER SHADOW		5	17	30	46	27	56	46	56	47	48	50	53						

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	
ZKR DUCHES	2018	PENINSULA PLAYBOY	5.90	102	82	95	84	102	117	123	109	95	100	99	105	17	3	7	1	1	4
		MIDDELPOS BBD SERABIE		5	5	6	56	26	72	55	71	57	59	62	67			4			1
PADIACHY RUBY	2018	HILLSIDE VIEW JORDAN	5.39	104	101	89	72	95	120	97	114	108	93	93	102	20	4	11			9
		BASTIAN LUCY I		5	5	28	54	27	71	54	70	55	58	60	66			8			1
KLEIN SANDFONTEIN LARA CROFT	2018	KLEIN SANDFONTEIN NUTCRACKER	16.82	110	133	94	121	108	101	126	119	110	120	112	119	18	4	13	2	2	8
		KLEIN SANDFONTEIN ARRA		10	5	45	60	30	76	59	75	61	63	66	71			6			1
SUMMIT DENALI	2021	LOWEN KAROOLAND SAM	5.85	96	106	94	84	85	92	85	90	87	85	84	83	5	1	4			
		KLOPDISSELBOOM GINGER		5	5	12	38	5	53	38	52	39	41	43	48			4			
GENESIS BBD GRACE KELLY	2021	TAILORED DOZER	5.84	91	92	97	88	93	98	89	115	106	95	92	101	14	2				
		PADIACHY RUBY		5	5	15	33	5	48	32	47	34	36	38	43						
PAMPOENKRAAL PIPPI LONGSTOCKINGS	2022	MIDDELPOS BBD BRUCE ALMIGHTY	7.44	118	119	104	101	108	81	129	118	110	114	113	115	9	2	3			2
		KLEIN SANDFONTEIN LARA CROFT		5	10	24	48	20	62	47	61	49	51	53	57			2			1

