

Boerboel Genetic Evaluation

SA Stud Book
February 2026

MR W LEUKES

33 COOT DRIVE
MARINA DA GAMA
CAPE TOWN
7945



Kennel Number: 664585



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.

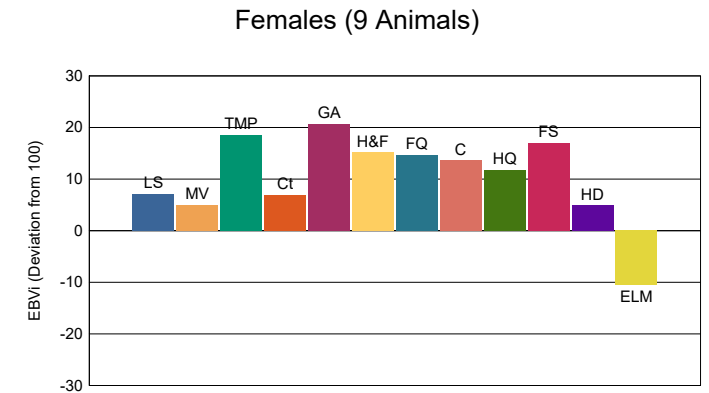
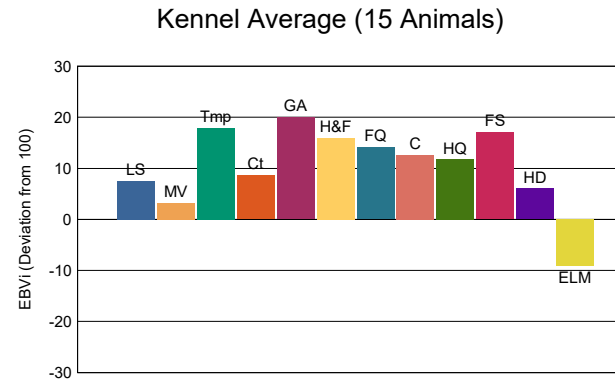
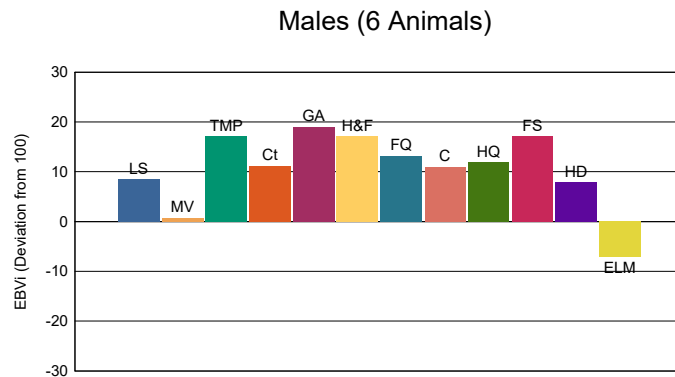
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	108	108	107
Movement (Mv)	103	101	105
Temperament (Tmp)	118	117	119
Coat (Ct)	109	111	107
General Appearance	120	119	121
Head & Face (H&F)	116	117	115
Front Quarter (FQ)	114	113	115
Centre (C)	113	111	114
Hind Quarter (HQ)	112	112	112
Final Score (FS)	117	117	117
Hip Health (HH)	106	108	105
Elbow Health (ELM)	91	93	89

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.

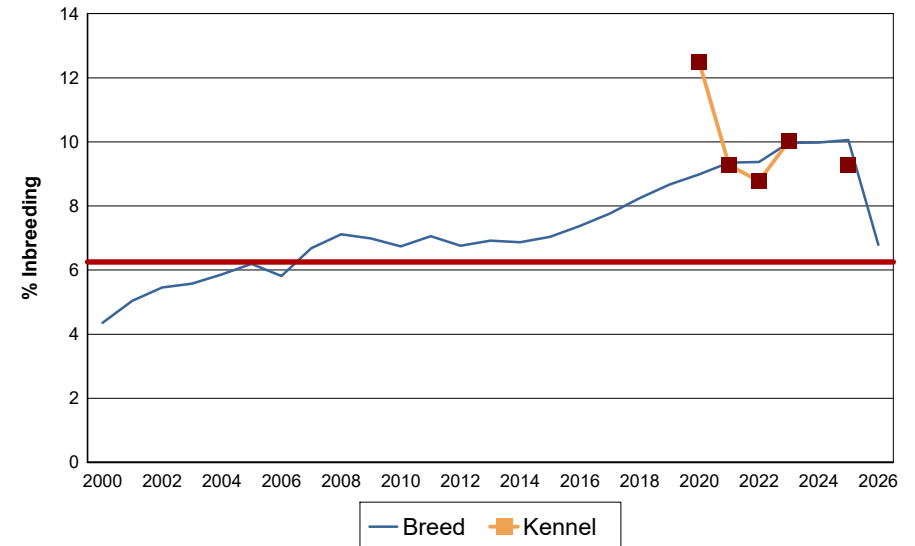
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

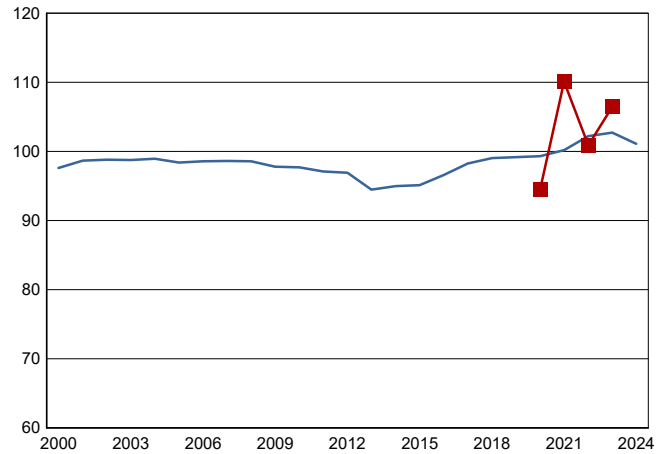


Inbreeding Levels

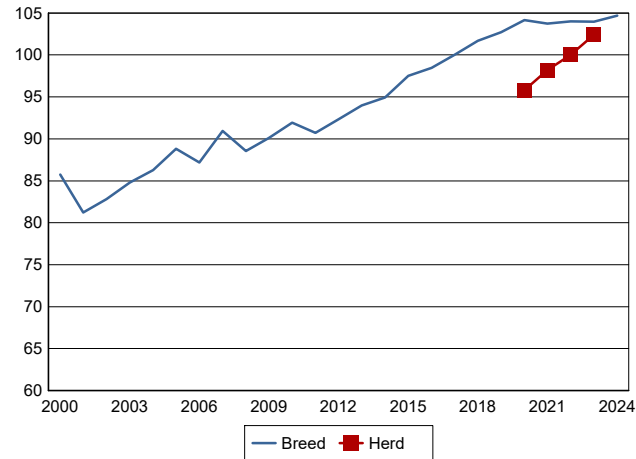
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	15	49007	6	25141	9	23857	6	3371	5	6287
Average Inbreeding	9.74	8.49	9.38	8.46	9.98	8.53	9.37	8.01	8.90	8.00
Number inbred	15	48727	6	24990	9	23728	6	24990	5	23728
Number >6.25% Inbr.	15	30600	6	15537	9	15058	5	15537	4	15058

Genetic Trends

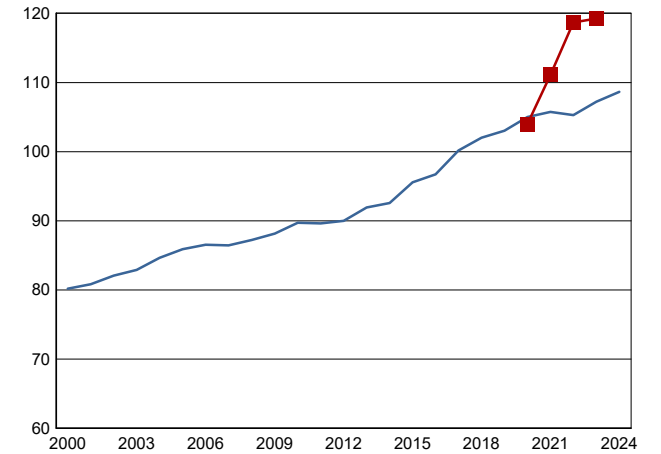
Litter Size



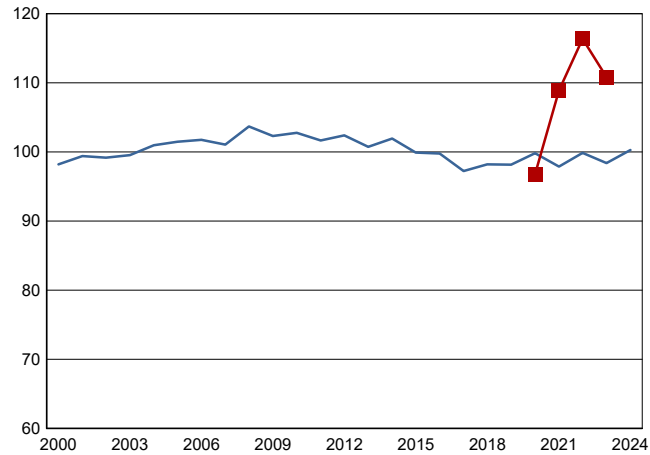
Movement



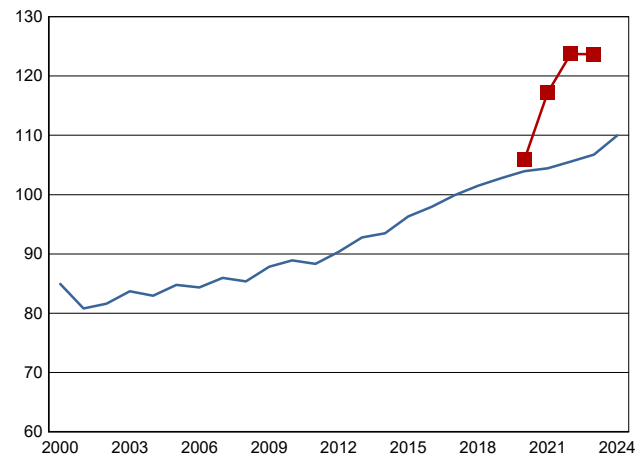
Temperament



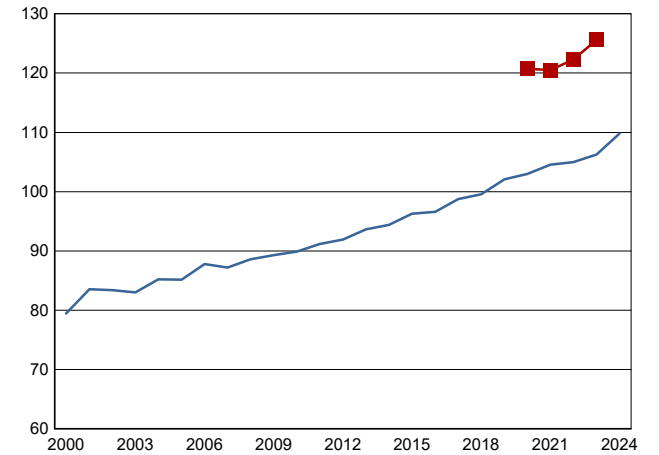
Coat



General Appearance

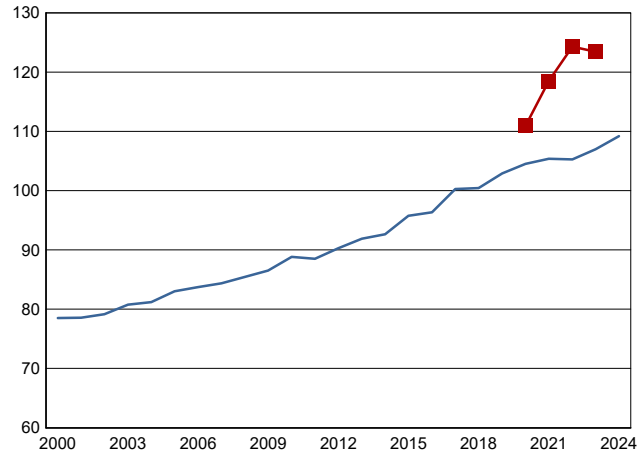


Head & Face

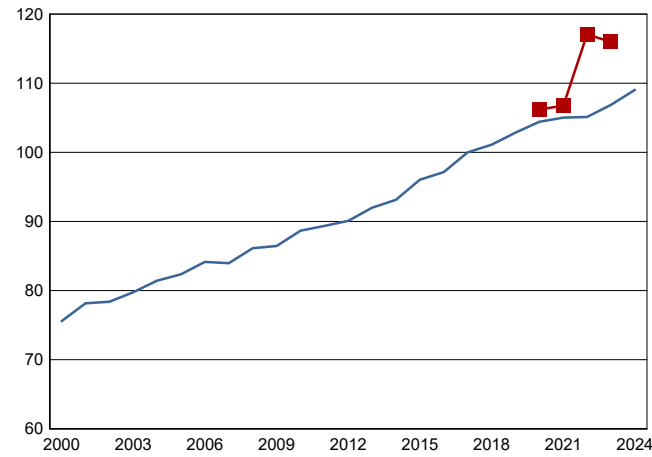


Genetic Trends

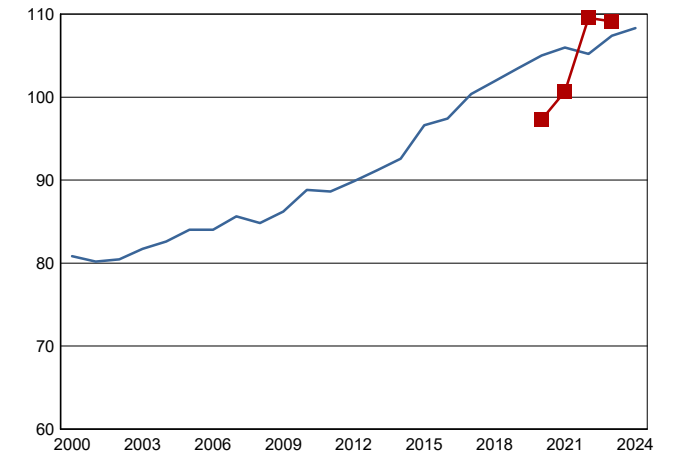
Front Quarter



Centre

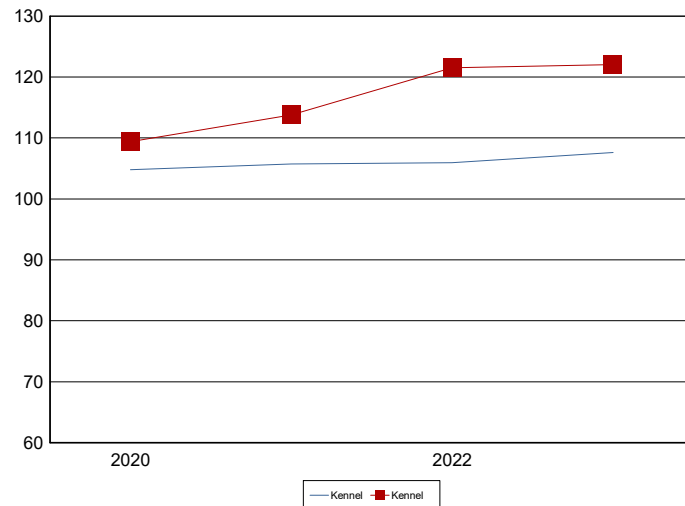


Hind Quarter

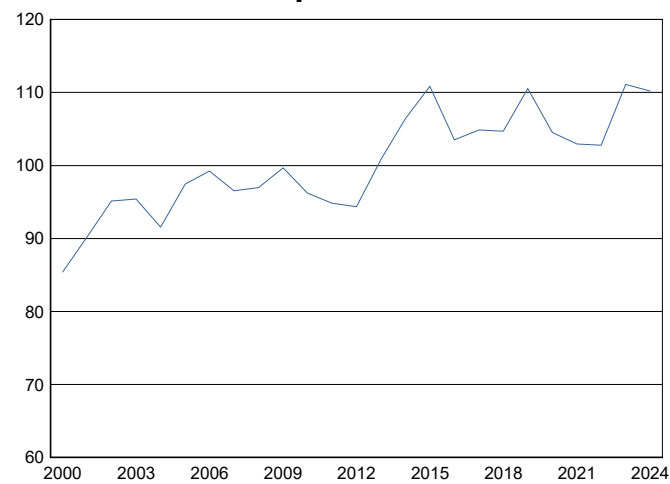


Final Score & Health Traits

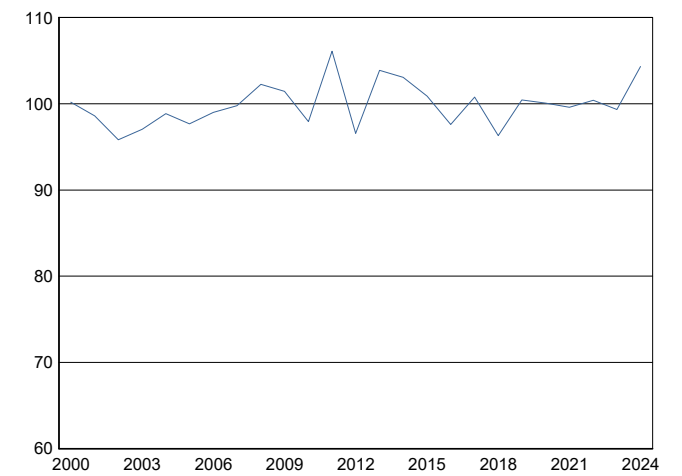
Final Score



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	
CDH CHAMPION		CDH BULLET	9.93	98	107	105	94	106	130	106	105	106	107	105	109	8	2	1			
	2022	CDH DOEDEL		5	5	29	53	28	68	53	67	54	56	59	63						
ROYAL CRESCENT APOCALYPSE 1		PAMPOENKRAAL APOCALYPSE	9.27	110	90	109	102	119	107	122	120	115	112	113	119						
	2025	KLEIN WITWAL BBD BUBLES		5	5	5	35	5	48	34	48	35	38	40	44						
ROYAL CRESCENT KUMA		PAMPOENKRAAL APOCALYPSE	9.27	110	90	109	102	119	107	122	120	115	112	113	119						
	2025	KLEIN WITWAL BBD BUBLES		5	5	5	35	5	48	34	48	35	38	40	44						
ROYAL CRESCENT ACE		PAMPOENKRAAL APOCALYPSE	9.27	110	90	109	102	119	107	122	120	115	112	113	119						
	2025	KLEIN WITWAL BBD BUBLES		5	5	5	35	5	48	34	48	35	38	40	44						
ROYAL CRESCENT ROCKY		PAMPOENKRAAL APOCALYPSE	9.27	110	90	109	102	119	107	122	120	115	112	113	119						
	2025	KLEIN WITWAL BBD BUBLES		5	5	5	35	5	48	34	48	35	38	40	44						
ROYAL CRESCENT STORM BREAKER		PAMPOENKRAAL APOCALYPSE	9.27	110	90	109	102	119	107	122	120	115	112	113	119						
	2025	KLEIN WITWAL BBD BUBLES		5	5	5	35	5	48	34	48	35	38	40	44						

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	
AFRIKA ASH		MES ANKER II	6.50	94	98	94	100	108	115	108	103	110	107	101	107	9	2	3			1
	2020	MES MONETTE		5	5	43	50	22	67	49	66	51	53	56	61			3			1
KLEIN WITWAL BBD BUBLES		KLEIN WITWAL BBD UNO	10.95	102	84	111	113	122	99	119	106	109	112	112	113	26	1	2			1
	2022	KLEIN WITWAL BBD LADY		5	5	18	51	22	68	51	67	52	55	57	63			2			1
ROYAL CRESCENT KIARA		ROYAL CRESCENT TEOWULF	11.47	102	90	106	115	131	112	134	126	132	126	115	129						
	2023	KLEIN WITWAL BBD BUBLES		5	5	5	42	5	62	41	60	43	45	49	55						
ROYAL CRESCENT SARAH LEE		PAMPOENKRAAL APOCALYPSE	9.27	110	90	109	102	119	107	122	120	115	112	113	119						
	2025	KLEIN WITWAL BBD BUBLES		5	5	5	35	5	48	34	48	35	38	40	44						
ROYAL CRESCENT ISSA BELLA		PAMPOENKRAAL APOCALYPSE	9.27	110	90	109	102	119	107	122	120	115	112	113	119						
	2025	KLEIN WITWAL BBD BUBLES		5	5	5	35	5	48	34	48	35	38	40	44						
ROYAL CRESCENT TRIX		PAMPOENKRAAL APOCALYPSE	9.27	110	90	109	102	119	107	122	120	115	112	113	119						
	2025	KLEIN WITWAL BBD BUBLES		5	5	5	35	5	48	34	48	35	38	40	44						
ROYAL CRESCENT KERA		PAMPOENKRAAL APOCALYPSE	9.27	110	90	109	102	119	107	122	120	115	112	113	119						
	2025	KLEIN WITWAL BBD BUBLES		5	5	5	35	5	48	34	48	35	38	40	44						
ROYAL CRESCENT AKIRA		PAMPOENKRAAL APOCALYPSE	9.27	110	90	109	102	119	107	122	120	115	112	113	119						
	2025	KLEIN WITWAL BBD BUBLES		5	5	5	35	5	48	34	48	35	38	40	44						
MARCELE ONYX		KLEIN SANDFONTEIN BIG VERC	14.53	98	83	107	108	110	99	117	102	108	118	111	111						
	2025	KLEIN SANDFONTEIN RIHANNA		5	5	5	29	5	44	27	43	29	32	34	39						

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	
CDH BULLET		CDH SNIPER	10.46	103	118	94	111	124	118	117	113	123	116	119	122	169 26	43 36	4	4	32 4
	2017	MIDDELPOS BBD MILLY		16	36	57	76	53	86	75	85	76	78	80	83					
KLEIN WITWAL BBD UNO		MES RUBENSTEIN	4.80	101	70	107	114	129	109	111	104	122	116	120	118	46 12	20 17			15 4
	2017	SA SUPERIOR PEPSI		5	20	49	72	49	83	72	82	72	74	76	79					
MES ANKER II		MES ARNOLD 1	10.26	94	92	104	118	111	111	105	100	110	105	114	109	12 4	2 2			2 1
	2018	MES MIKA		26	44	41	59	37	73	59	72	60	62	64	68					
PAMPOENKRAAL APOCALYPSE		MIDDELPOS BBD BRUCE ALMIGHTY	9.95	118	96	108	91	117	116	125	133	120	112	114	125	63 6	16 13			3 3
	2020	KLEIN SANDFONTEIN LISA MARI		5	9	23	61	33	76	61	76	62	64	67	72					
KLEIN SANDFONTEIN BIG VERC		KLEIN SANDFONTEIN THE STING	10.40	102	88	92	106	109	99	119	94	104	115	109	106	34 5	10 8			3 3
	2021	KLEIN SANDFONTEIN SADIE		5	5	18	55	24	72	53	71	56	58	61	67					
ROYAL CRESCENT TEOWULF		KLEIN WITWAL BBD FROSTWOLF	10.38	102	96	101	109	132	120	140	146	149	138	116	142	18 2	3 3			1 1
	2022	FRANK IRENE CHLOE		5	5	5	45	8	65	44	64	46	49	52	58					

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		Sire		Hips	Elbows	Litter Size	Move-	Tempe-r	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	
	BYr	Dam	%	Acc.	Acc.	Acc.	ment	ament		Appear.	Face	Quarter		Quarter	Score			Kennels			litters
MES MONETTE		MES BUDDY I	3.94	95	104	84	84	98	112	105	103	105	103	87	98	25	5	5			2
	2016	MES MARLOTTE		5	5	61	51	28	65	51	64	52	54	56	61			5	1		
CDH DOEDELS		CDH THUNDER	7.33	94	97	115	89	96	126	103	93	100	103	95	98	23	3	5			3
	2020	MES LARA 2		5	5	52	60	36	75	59	74	61	63	65	70			5	1		
KLEIN WITWAL BBD LADY		ELEVATION MUKULA	10.87	102	99	108	104	111	111	116	110	100	109	107	111	1	1	1			1
	2020	QUREDU ZARA		5	5	27	50	21	68	50	67	51	54	56	62			1	1		
KLEIN SANDFONTEIN RIHANNA		KLEIN SANDFONTEIN THE MACK ATTACK	11.39	93	77	123	109	111	100	115	111	113	121	112	115	23	3	1			
	2020	KLEIN SANDFONTEIN LIEFA		5	5	40	48	21	63	47	62	49	51	53	58			1			
KLEIN WITWAL BBD BUBLES		KLEIN WITWAL BBD UNO	10.95	102	84	111	113	122	99	119	106	109	112	112	113	26	1	2			1
	2022	KLEIN WITWAL BBD LADY		5	5	18	51	22	68	51	67	52	55	57	63			2	1		

