

Boerboel Genetic Evaluation

SA Stud Book
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PALAPYE

BOTSWANA



Kennel Number: 685652



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.

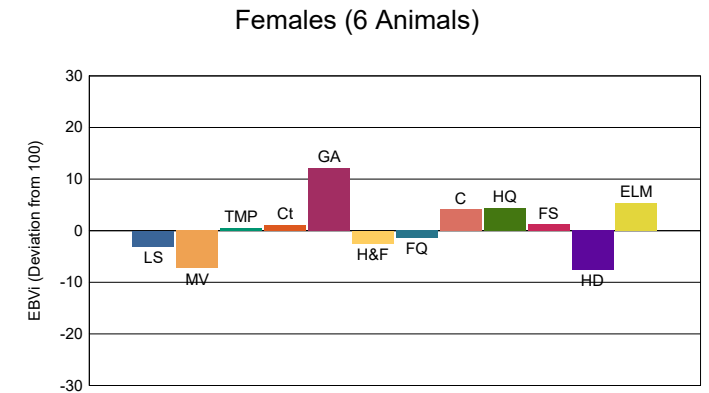
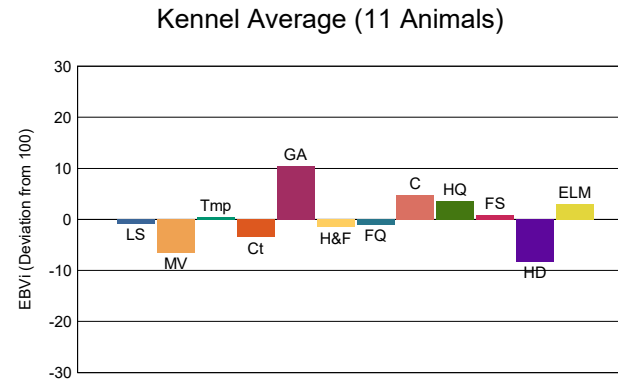
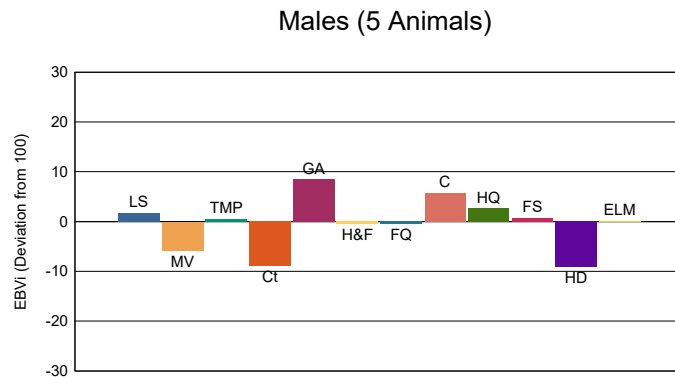
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	102	97
Movement (Mv)	93	94	93
Temperament (Tmp)	101	101	101
Coat (Ct)	97	91	101
General Appearance	111	108	112
Head & Face (H&F)	98	100	98
Front Quarter (FQ)	99	99	99
Centre (C)	105	106	104
Hind Quarter (HQ)	104	103	104
Final Score (FS)	101	101	101
Hip Health (HH)	92	91	92
Elbow Health (ELM)	103	100	105

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.

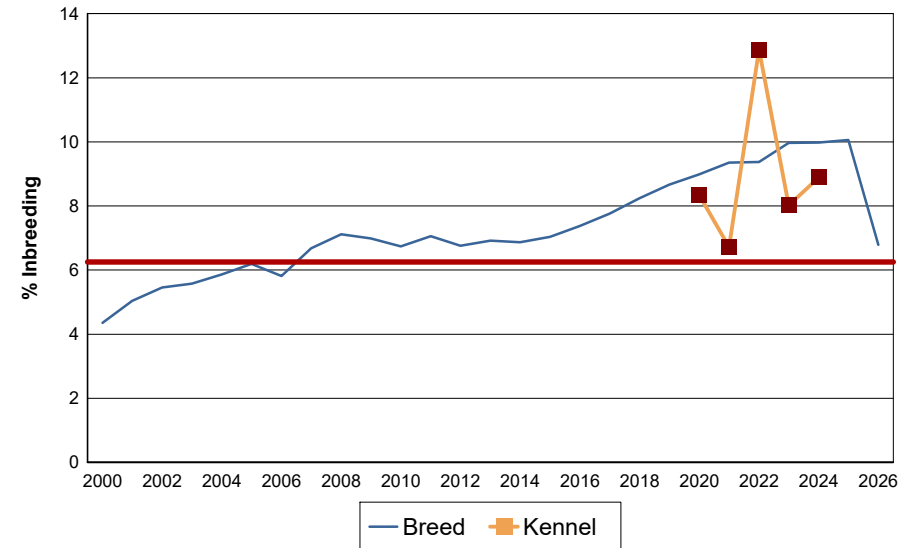
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

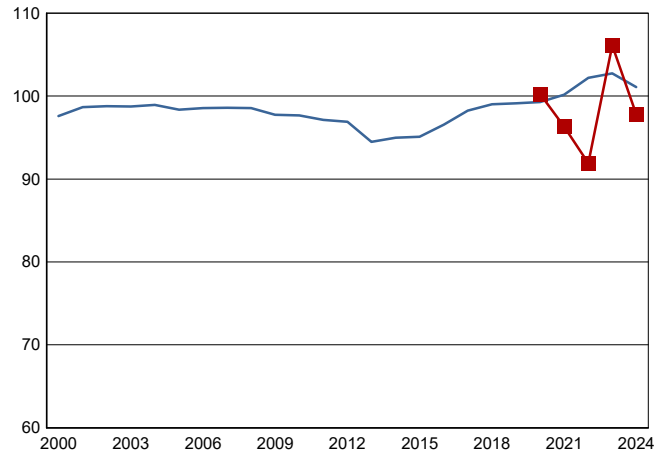


Inbreeding Levels

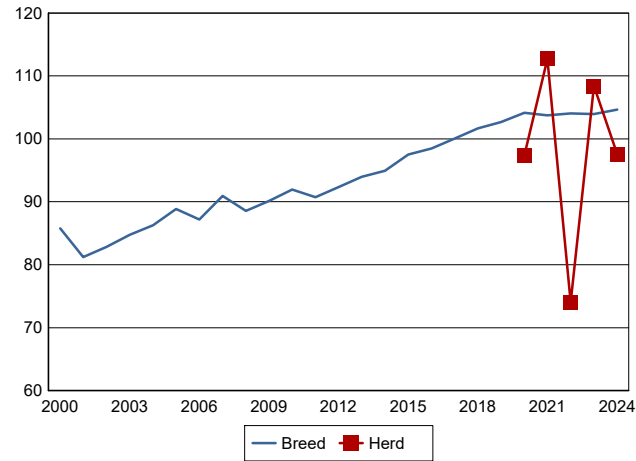
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	11	49007	5	25141	6	23857	7	3371	6	6287
Average Inbreeding	9.14	8.49	9.52	8.46	8.83	8.53	10.26	8.01	7.89	8.00
Number inbred	11	48727	5	24990	6	23728	7	24990	6	23728
Number >6.25% Inbr.	10	30600	5	15537	5	15058	5	15537	3	15058

Genetic Trends

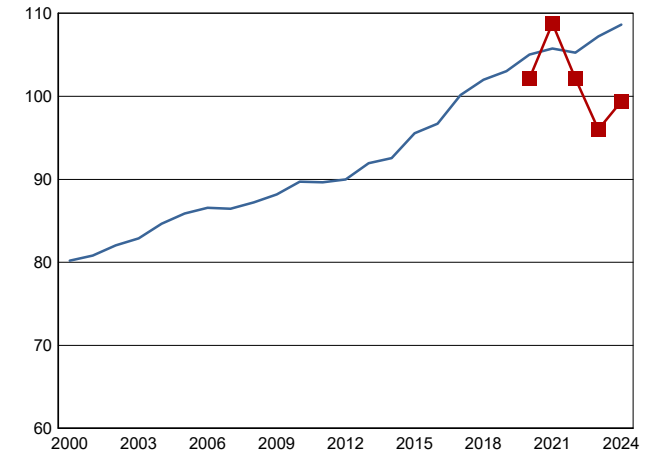
Litter Size



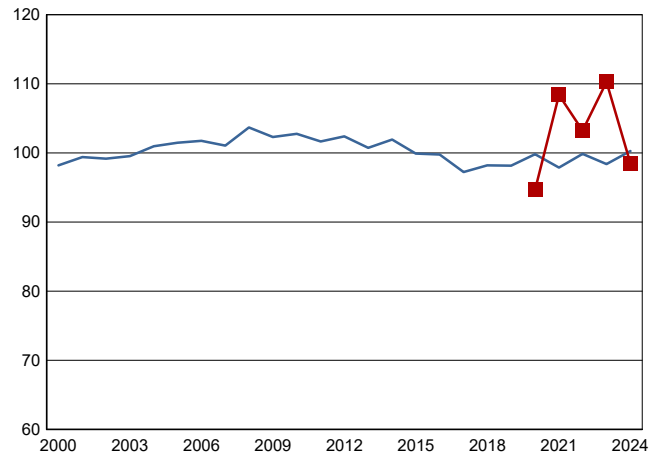
Movement



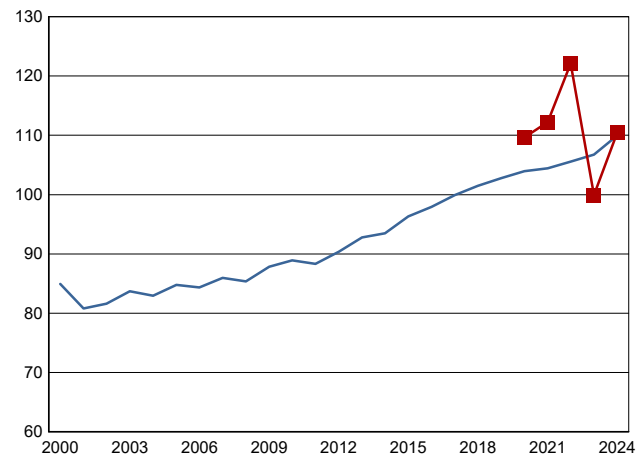
Temperament



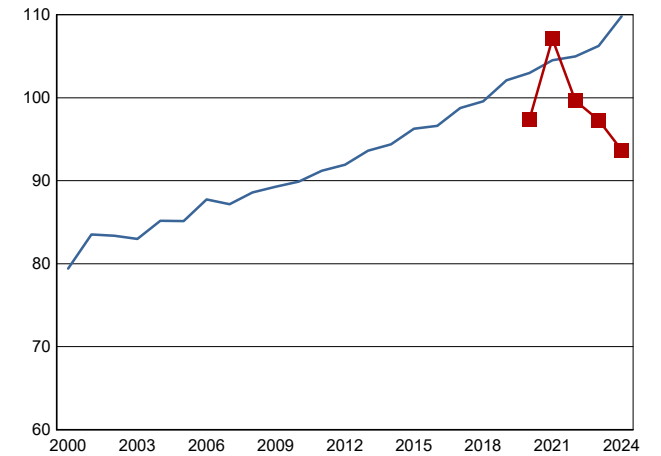
Coat



General Appearance

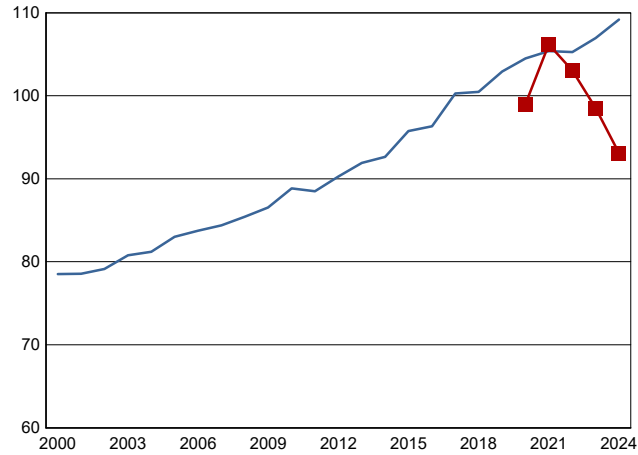


Head & Face

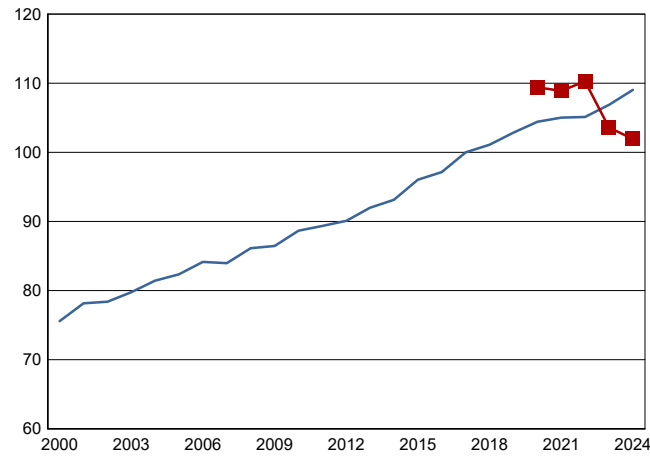


Genetic Trends

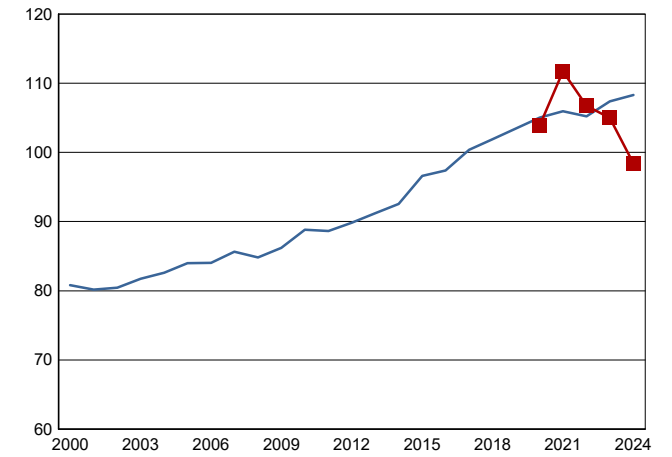
Front Quarter



Centre

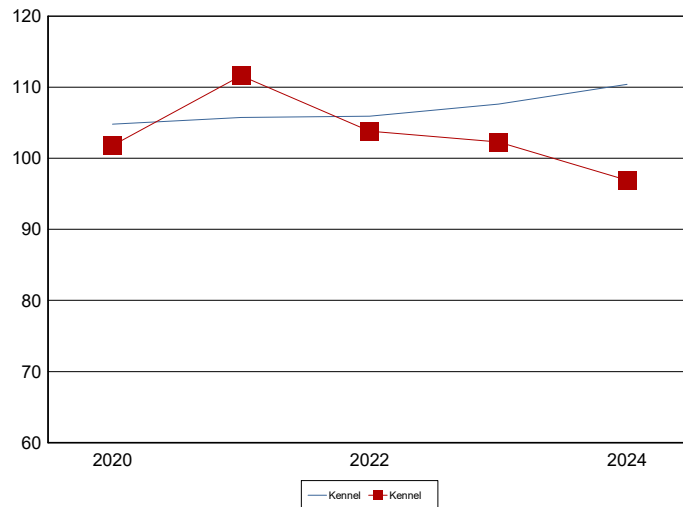


Hind Quarter

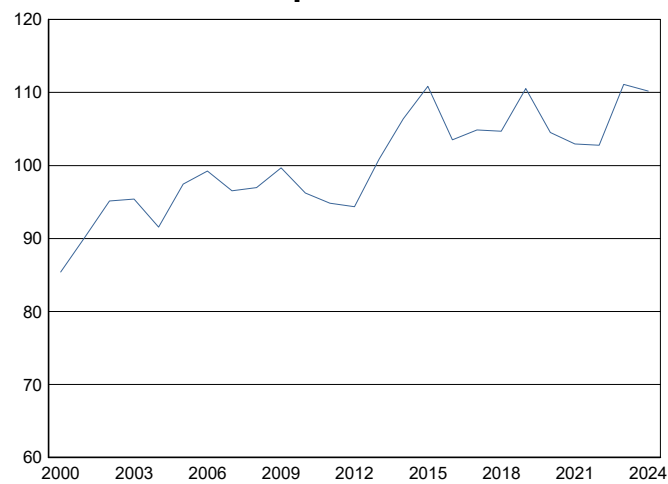


Final Score & Health Traits

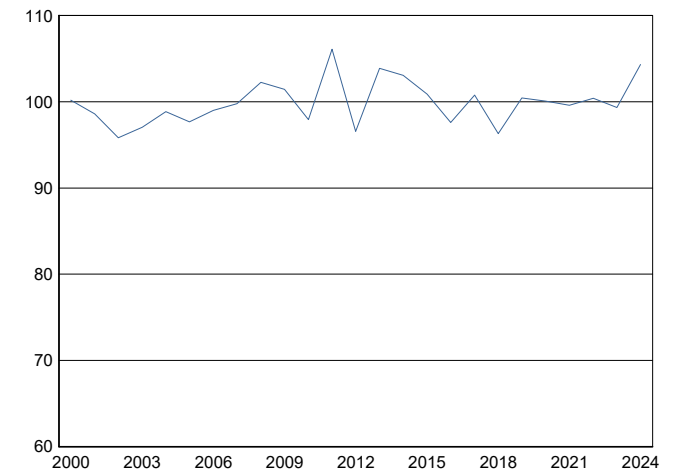
Final Score



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	
AKOT PICASSO		JOSMOT BARKER	8.35	90	100	99	96	102	95	111	98	100	110	103	102						
	2020	TYRANTS OF AFRICA TREBLA-NIKA		5	5	5	32	5	45	31	45	33	35	37	41						
AKOT MARCOPOLLO		LA RIVIERA NTOMBO	12.88	89	105	92	72	102	114	123	105	108	115	106	108						
	2022	AKOT STORM		5	5	5	40	5	60	39	59	41	44	47	53						
BODINGTON BOERBOEL KWAGGA		BODINGTON BOERBOEL MICKEY	7.09	88	93	122	108	100	50	88	107	103	100	107	100						
	2023	BODINGTON BOERBOEL SONIC BOOM		5	5	10	49	16	66	47	65	50	52	55	60						
AKOT STOICHKOV		PHILMIA SANGOMA	9.64	94	102	98	100	103	97	111	98	98	107	102	101						
	2024	AKOT STORM		5	5	5	39	5	59	22	57	40	43	46	52						
AKOT FERNANDO		PHILMIA SANGOMA	9.64	94	102	98	95	96	100	110	90	88	97	95	92						
	2024	AKOT STORM		5	5	5	39	5	59	22	57	40	43	46	52						

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	
TYRANTS OF AFRICA TREBLA-NIKA	2018	MAWEZA DISSELBOOM	6.54	105	99	108	103	96	113	95	88	95	98	105	97	12	2	3			3
		MES DANIKA		5	5	25	50	25	66	50	65	51	53	56	61			3			1
RIMA AKOT CLEO	2018	TREBLA HARNAS	5.64	87	112	96	98	94	92	106	101	93	95	97	97	1	1	1			
		AFRIKA CANDI		5	5	23	47	19	65	46	64	48	51	53	59			1			
AKOT STORM	2020	JOSMOT BARKER	8.35	90	100	98	88	103	102	123	100	100	111	102	103	14	2	4			
		TYRANTS OF AFRICA TREBLA-NIKA		5	5	5	39	5	56	35	55	40	43	45	50			1			
AKOT LADY GREATNESS	2021	CDH HECTOR	6.72	96	112	96	113	109	108	112	107	106	109	112	112						
		RIMA AKOT CLEO		5	5	5	42	5	61	40	60	43	45	48	54						
AKOT EMILY	2022	LA RIVIERA NTOMBO	12.88	89	105	92	76	102	93	121	95	98	106	107	100						
		AKOT STORM		5	5	5	39	5	59	38	57	40	43	46	52						
AKOT WENDY	2022	LA RIVIERA NTOMBO	12.88	89	105	92	79	100	99	117	95	99	106	103	99						
		AKOT STORM		5	5	5	28	5	43	27	42	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		
LA RIVIERA NTOMBO		CABARET CRUISER	15.47	88	109	86	70	97	96	111	89	98	101	105	95	25	3	12		3	
	2016	JOSMOT STORM		5	5	7	51	19	67	50	66	52	54	57	62						10
MAWEZA DISSELBOOM		MIDDELPOS BBD TANKWA	5.80	109	92	123	113	105	103	90	78	98	97	113	96	51	8	22	1	1	
	2016	SPITSVUUR BBD DIBI		5	9	39	69	45	81	69	80	70	72	74	77						18
TREBLA HARNAS		TREBLA BOETMAN	7.13	79	105	87	92	91	89	110	115	105	106	88	102	12	3	8		3	
	2016	TREBLA ALMA		5	5	25	58	31	73	57	72	58	61	63	68						6
JOSMOT BARKER		CABARET LA BAMBA	13.77	76	102	91	89	108	76	127	109	105	122	102	107	17	3	5		3	
	2018	TARGUS NOVA		5	5	21	53	26	68	51	67	54	56	58	63						5
CDH HECTOR		CDH BULLET	17.60	105	113	97	115	114	110	109	102	110	112	120	114	1	1	1			
	2019	CDH LUNA1		5	5	27	54	24	69	53	68	55	57	59	64						1
BODINGTON BOERBOEL MICKEY		KAMMO BBD SAMWELL	7.36	89		122	100	109	78	111	113	110	102	103	106	70	10	17	2	2	
	2020	BODINGTON BOERBOEL SAVANNA		30		29	63	37	79	62	78	64	67	69	74						13
PHILMIA SANGOMA		WOEKER BBD JAPIE	4.68	97	103	98	112	100	89	86	94	93	102	105	98	5	1	2			
	2021	MES NIKITA		5	5	28	53	27	68	50	67	54	56	58	63						1

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	
MES DANIKA	2014	AFRIKA DAMARKUS	5.58	100	106	93	92	88	108	97	104	96	106	96	100	14	2	2			1
		MES MILEY		18	26	50	55	32	69	55	68	56	58	60	64			2			1
AFRIKA CANDI	2017	MAKHULU BBD RAFA	4.46	95	118	104	103	101	94	100	98	93	90	99	96	18	4	2			3
		ELEVATION CALIDORA		5	19	54	53	34	63	52	62	53	55	56	60			2			1
TYRANTS OF AFRICA TREBLA-NIKA	2018	MAWEZA DISSELBOOM	6.54	105	99	108	103	96	113	95	88	95	98	105	97	12	2	3			3
		MES DANIKA		5	5	25	50	25	66	50	65	51	53	56	61			3			1
RIMA AKOT CLEO	2018	TREBLA HARNAS	5.64	87	112	96	98	94	92	106	101	93	95	97	97	1	1	1			
		AFRIKA CANDI		5	5	23	47	19	65	46	64	48	51	53	59			1			
BODINGTON BOERBOEL SONIC BOOM	2020	BODINGTON BOERBOEL THE HULK	16.80	85	97	121	108	100	39	88	112	108	106	115	104	18	3	9			4
		BODINGTON BOERBOEL DAISY DUKE		5	5	38	59	22	76	57	75	60	63	65	71			8			1
AKOT STORM	2020	JOSMOT BARKER	8.35	90	100	98	88	103	102	123	100	100	111	102	103	14	2	4			
		TYRANTS OF AFRICA TREBLA-NIKA		5	5	5	39	5	56	35	55	40	43	45	50			1			

