

Boerboel Genetic Evaluation

SA Stud Book
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MR B. THEBEYAME

P.O. BOX 82245

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GABORONE

BOTSWANA



Kennel Number: 677589



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.

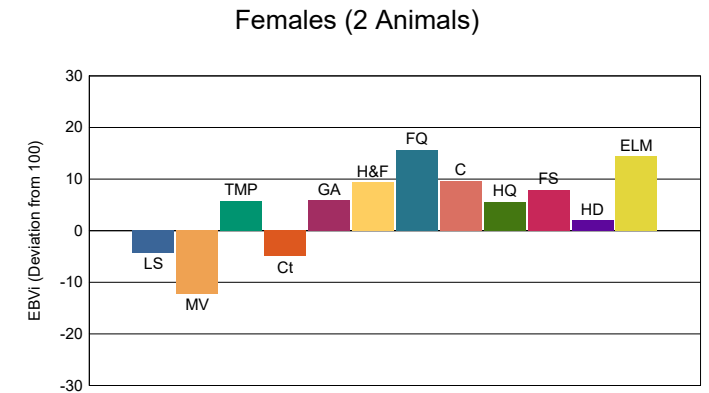
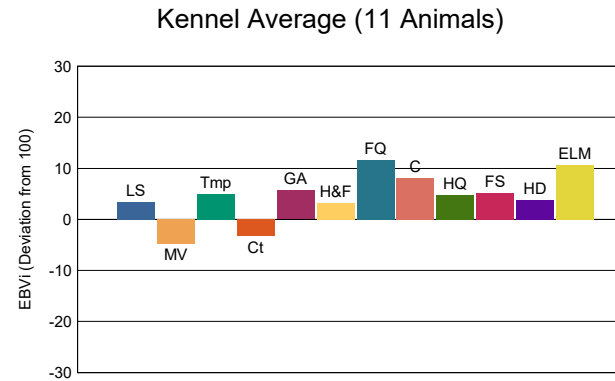
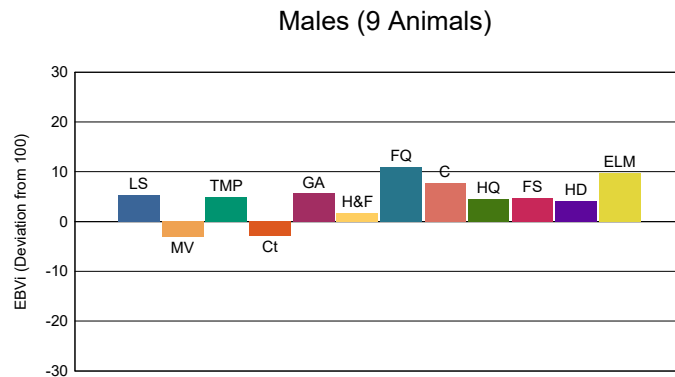
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	104	105	96
Movement (Mv)	95	97	88
Temperament (Tmp)	105	105	106
Coat (Ct)	97	97	95
General Appearance	106	106	106
Head & Face (H&F)	103	102	109
Front Quarter (FQ)	112	111	116
Centre (C)	108	108	110
Hind Quarter (HQ)	105	105	106
Final Score (FS)	105	105	108
Hip Health (HH)	104	104	102
Elbow Health (ELM)	111	110	114

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.

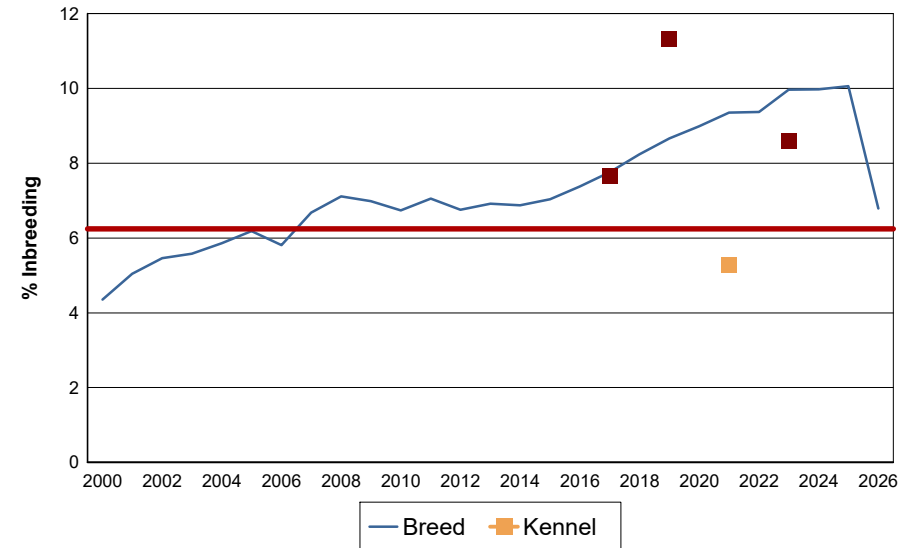
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

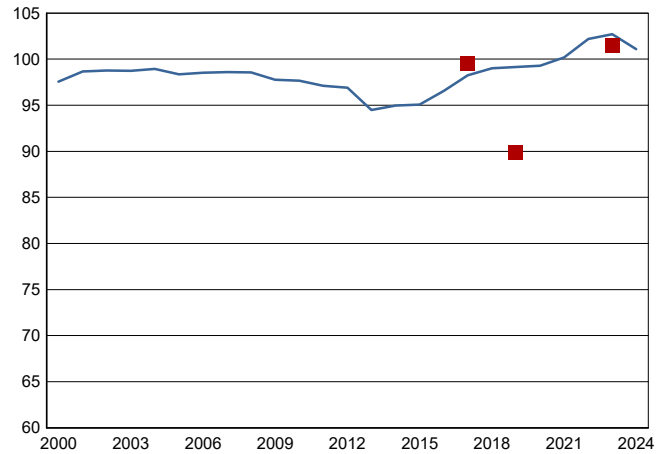


Inbreeding Levels

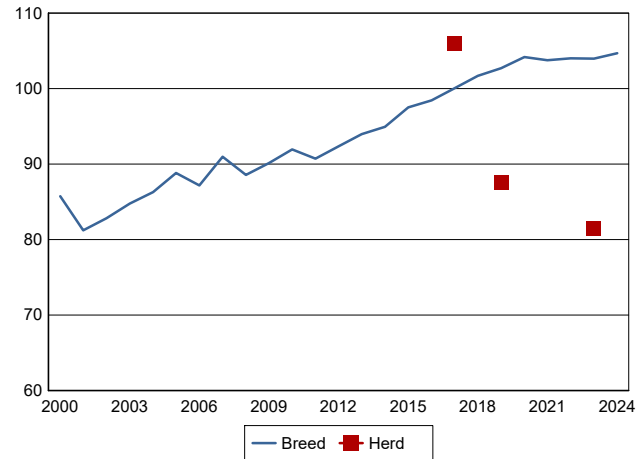
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	11	49007	9	25141	2	23857	8	3371	6	6287
Average Inbreeding	8.30	8.49	8.52	8.46	7.28	8.53	6.25	8.01	10.27	8.00
Number inbred	11	48727	9	24990	2	23728	8	24990	6	23728
Number >6.25% Inbr.	9	30600	8	15537	1	15058	4	15537	5	15058

Genetic Trends

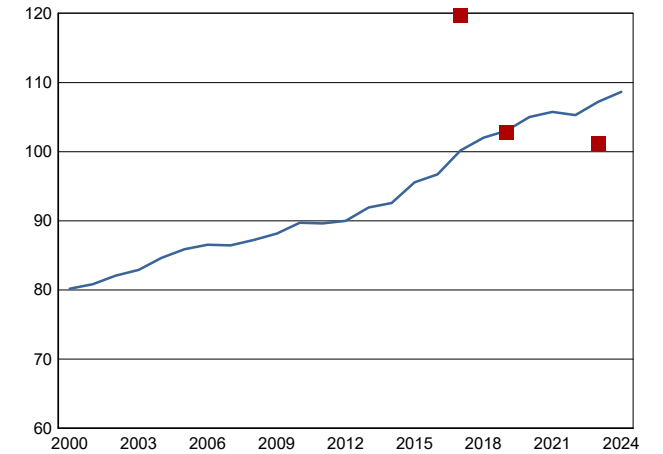
Litter Size



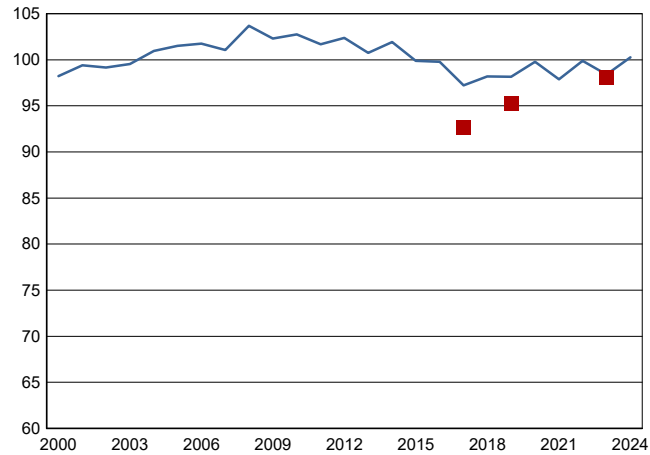
Movement



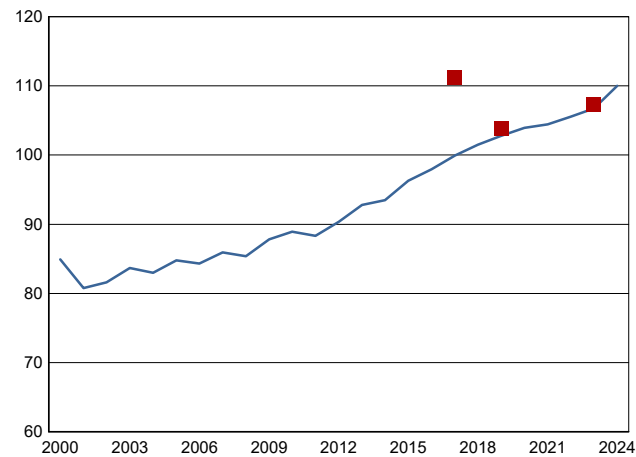
Temperament



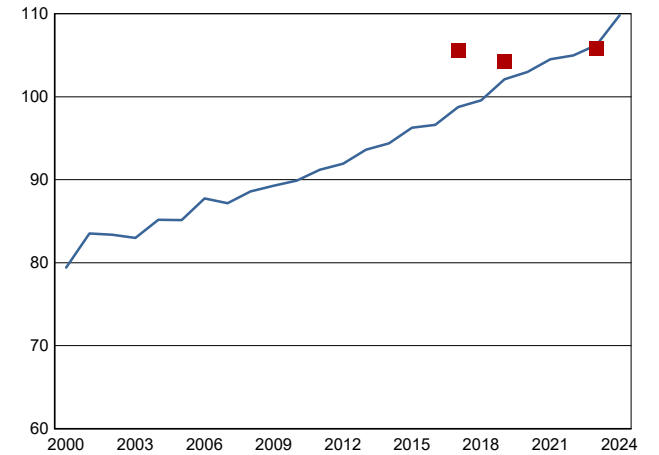
Coat



General Appearance

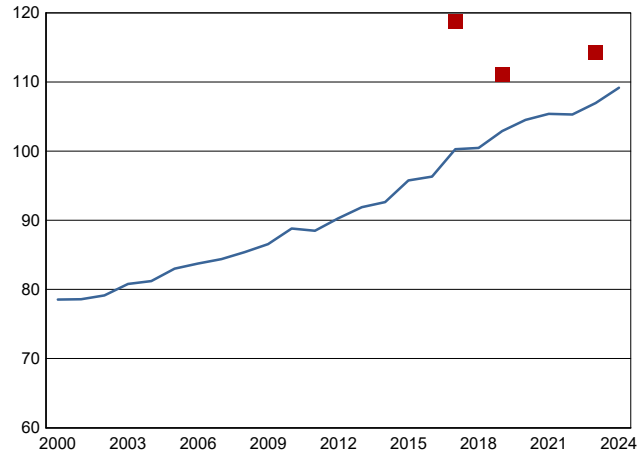


Head & Face

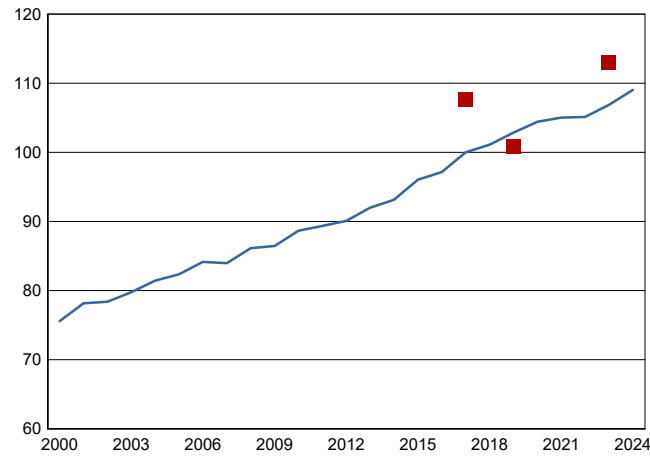


Genetic Trends

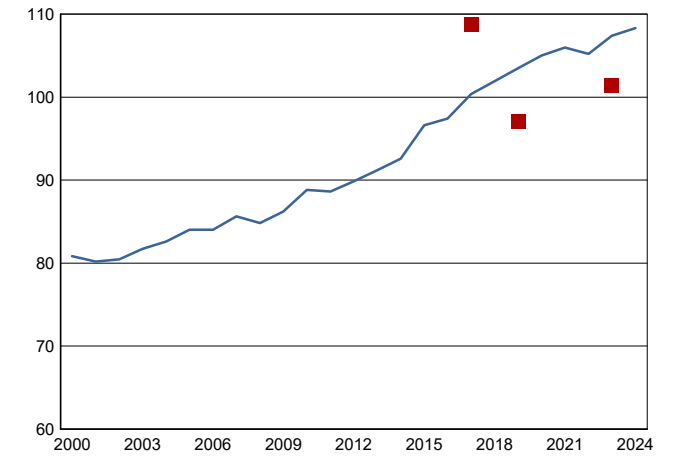
Front Quarter



Centre

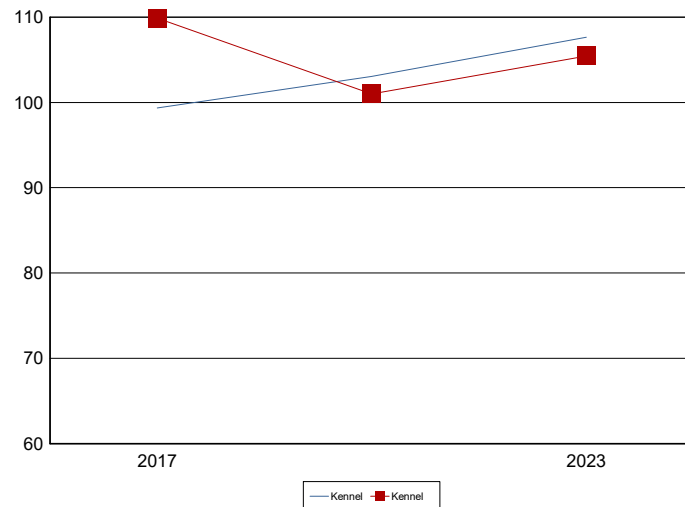


Hind Quarter

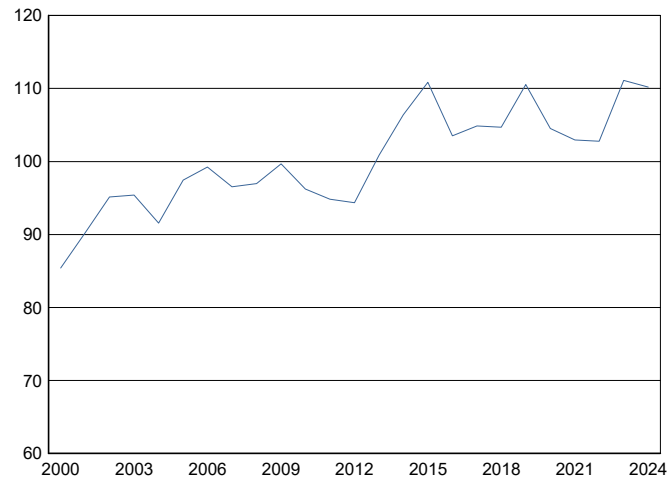


Final Score & Health Traits

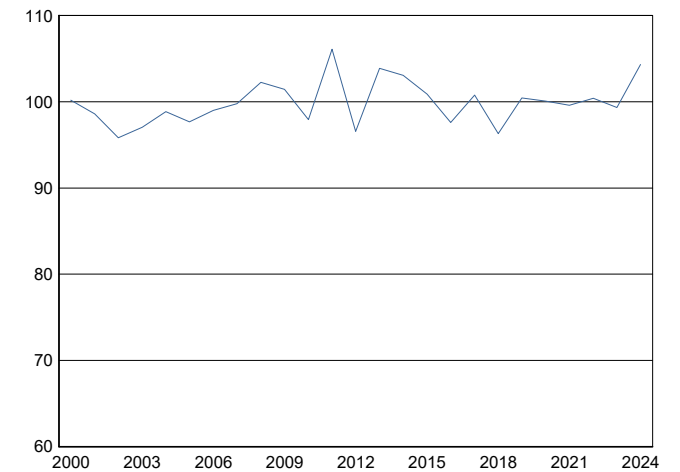
Final Score



Hip Health



Elbow Health



Estimated Breeding Value Indices (EBVi's)

Males

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information		Inbred	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	Sire	%	Hips	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	litters
BYr	Dam		Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter	Quarter	Quarter	Score			Kennels			
APPARENT G.I. JOE	MES BUKA	7.67	105	122	100	103	121	106	112	106	118	102	102	109	22	7	11			3
	2017 STEPHANO GABRIELLA		5	5	27	56	29	71	55	70	57	59	61	66			10			1
KLEIN SANDFONTEIN MACGYVER	MES LUKA	8.76	102	95	111	117	97	78	88	89	97	101	110	96	14	5	4			1
	2020 ZUKANDI SANZA		5	5	26	56	32	71	54	70	57	59	61	66			3			1
KLEIN SANDFONTEIN ARAGON	KLEIN SANDFONTEIN MATANA	6.30	105	124	113	95	109	93	114	107	120	129	117	115	5	2	2			
	2020 KLEIN SANDFONTEIN MARA		5	12	33	52	26	68	50	67	53	55	57	62			1			
KLEIN SANDFONTEIN OCTOPUS	KLEIN SANDFONTEIN HUEY	14.17	112	89	124	105	112	109	112	98	111	102	111	107						
	2020 MES PERFECT		5	23	42	57	37	69	56	68	57	59	61	65						
JACKALS DRIFT RABBLE	ANTWAIN SHORT STOPPER	5.27	103	104	94	92	100	111	104	111	110	97	95	104						
	2021 APPARENT WARRIOR PRINCESS KELLOS		5	5	5	20	5	36	18	35	21	23	26	31						
JACKALS DRIFT REMINGTON	KLEIN SANDFONTEIN MACGYVER	9.23	102	103	101	103	100	87	96	97	104	101	104	99						
	2023 APPARENT WARRIOR PRINCESS KELLOS		5	5	5	28	5	42	26	41	29	31	33	37						
JACKALS DRIFT MAJOR GENERAL	KLEIN SANDFONTEIN ARAGON	8.43	103	118	102	91	106	94	109	106	115	115	107	108						
	2023 APPARENT WARRIOR PRINCESS KELLOS		5	5	5	28	5	42	25	41	28	31	33	37						
JACKALS DRIFT DRAGON	KLEIN SANDFONTEIN ARAGON	8.43	103	118	102	91	106	94	109	106	115	115	107	108						
	2023 APPARENT WARRIOR PRINCESS KELLOS		5	5	5	28	5	42	25	41	28	31	33	37						
JACKALS DRIFT DIESEL	KLEIN SANDFONTEIN ARAGON	8.43	103	118	102	75	94	101	107	97	109	108	89	96						
	2023 APPARENT WARRIOR PRINCESS KELLOS		5	5	5	38	5	57	25	55	39	41	44	50						

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	
APPARENT WARRIOR PRINCESS KELLOS	2019	APPARENT G.I. JOE	6.12	101	111	90	88	103	95	104	104	111	101	97	101	9	3	2			1
		LOWEN KLEIN WITWAL PRINCESS MKABAYI		5	5	21	44	13	63	43	61	45	48	51	56			1			1
JACKALS DRIFT GABRIELLA	2023	KLEIN SANDFONTEIN ARAGON	8.43	103	118	102	88	109	95	108	114	120	119	114	115						
		APPARENT WARRIOR PRINCESS KELLOS		5	5	5	38	5	57	25	55	39	41	44	50						

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		
KLEIN SANDFONTEIN MATANA		GLANWYN MANDLA	4.90	93	121	103	94	95	96	104	86	103	125	112	102	73 11	19 15	3 3		17 4	
	2013	KLEIN SANDFONTEIN ASARA		46	55	61	73	50	84	72	83	73	75	77	80						
KLEIN SANDFONTEIN HUEY		GROENBERG BBD RAMBO	5.01	105	72	117	119	129	116	124	102	126	117	124	120	162 28	63 55	13 13		47 10	
	2014	KLEIN SANDFONTEIN KISSKA		52	64	67	81	64	89	80	88	81	83	84	87						
MES BUKA		MIDDELPOS BBD ALPHA	5.70	121	129	102	107	123	100	111	113	130	117	120	120	48 9	23 23	4 4		19 6	
	2015	MES MARILYN		36	46	56	71	52	82	71	81	72	74	75	78						
MES LUKA		MIDDELPOS BBD ALPHA	4.38	104	104	117	113	95	100	84	90	99	91	109	97	26 3	8 8			3 2	
	2015	TREBLA LULU		20	31	48	64	47	75	64	75	65	66	68	72						
APPARENT G.I. JOE		MES BUKA	7.67	105	122	100	103	121	106	112	106	118	102	102	109	22 7	11 10			3 1	
	2017	STEPHANO GABRIELLA		5	5	27	56	29	71	55	70	57	59	61	66						
ANTWAIN SHORT STOPPER		ANTWAIN MINI-COOPER	7.31	105	96	98	97	97	127	104	118	110	94	93	107	16 4	3 2			2 2	
	2019	GIANTS OF AFRICA ZION QUEEN		5	5	11	31	5	47	30	46	32	34	37	42						
KLEIN SANDFONTEIN MACGYVER		MES LUKA	8.76	102	95	111	117	97	78	88	89	97	101	110	96	14 5	4 3			1 1	
	2020	ZUKANDI SANZA		5	5	26	56	32	71	54	70	57	59	61	66						
KLEIN SANDFONTEIN ARAGON		KLEIN SANDFONTEIN MATANA	6.30	105	124	113	95	109	93	114	107	120	129	117	115	5 2	2 1				
	2020	KLEIN SANDFONTEIN MARA		5	12	33	52	26	68	50	67	53	55	57	62						

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	
STEPHANO GABRIELLA	2014	CABARET STRAATKAT 1	18.04	89	115	97	106	115	76	106	96	107	99	103	99	14	1	11	1	1	7
		CABARET BELLA 2		5	5	40	61	32	76	61	75	62	64	67	71			11			2
LOWEN KLEIN WITWAL PRINCESS MKABAYI	2014	KLEIN SANDFONTEIN ROCCO	7.51	97	100	80	85	83	98	99	111	104	97	100	101	4	4	4			3
		GRETCHEN MHEIS		5	5	50	50	25	64	49	63	51	53	55	60			4			2
ZUKANDI SANZA	2017	KLEIN SANDFONTEIN HUEY	8.36	101	86	106	106	104	98	112	96	111	112	108	105	24	2	11			6
		ZUKANDI MICKA		10	27	46	65	43	78	64	77	66	67	70	73			11			1
KLEIN SANDFONTEIN MARA	2018	KLEIN SANDFONTEIN NUTCRACKER	10.10	116		123	111	126	79	127	120	125	132	126	126	24	3	6			6
		MES O` HARA		5		51	57	31	73	57	72	58	60	63	68			5			1
MES PERFECT	2018	MES ARNOLD 1	11.46		105	132	97	104	109	104	105	109	92	104	104	43	4	13			12
		MES MAXI			27	63	67	49	78	67	77	68	69	71	74			10			1
APPARENT WARRIOR PRINCESS KELLOS	2019	APPARENT G.I. JOE	6.12	101	111	90	88	103	95	104	104	111	101	97	101	9	3	2			1
		LOWEN KLEIN WITWAL PRINCESS MKABAYI		5	5	21	44	13	63	43	61	45	48	51	56			1			1

