

Boerboel Genetic Evaluation

SA Stud Book
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76 GOEDEMOED STREET
DURBANVILLE
CAPE TOWN
7550



Kennel Number: 680552



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.

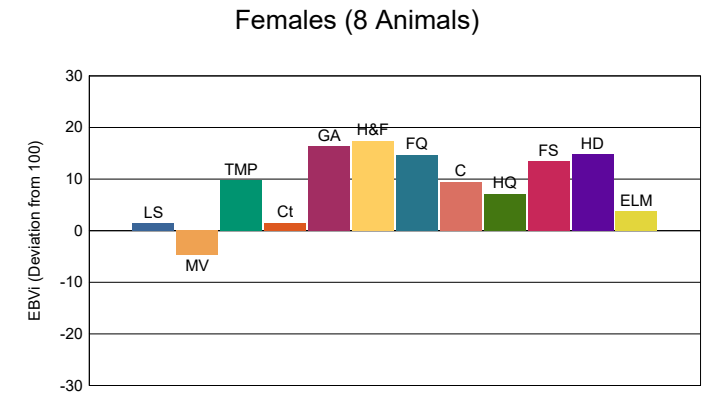
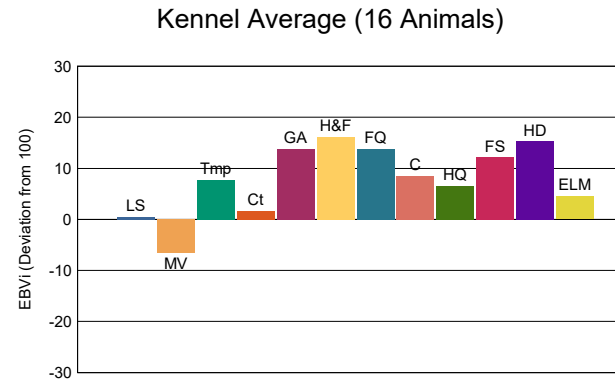
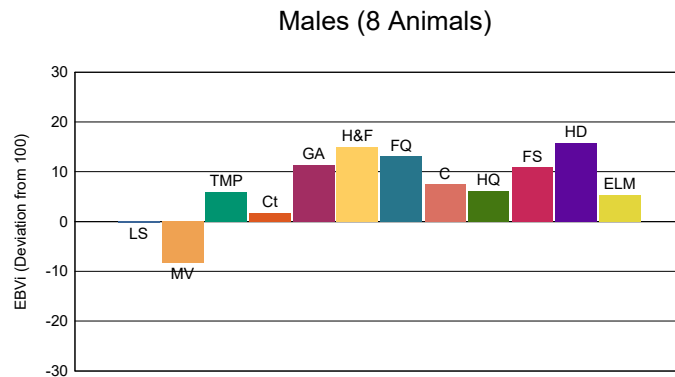
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	101	100	101
Movement (Mv)	93	92	95
Temperament (Tmp)	108	106	110
Coat (Ct)	102	102	102
General Appearance	114	111	116
Head & Face (H&F)	116	115	117
Front Quarter (FQ)	114	113	115
Centre (C)	108	107	109
Hind Quarter (HQ)	107	106	107
Final Score (FS)	112	111	113
Hip Health (HH)	115	116	115
Elbow Health (ELM)	105	105	104

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.

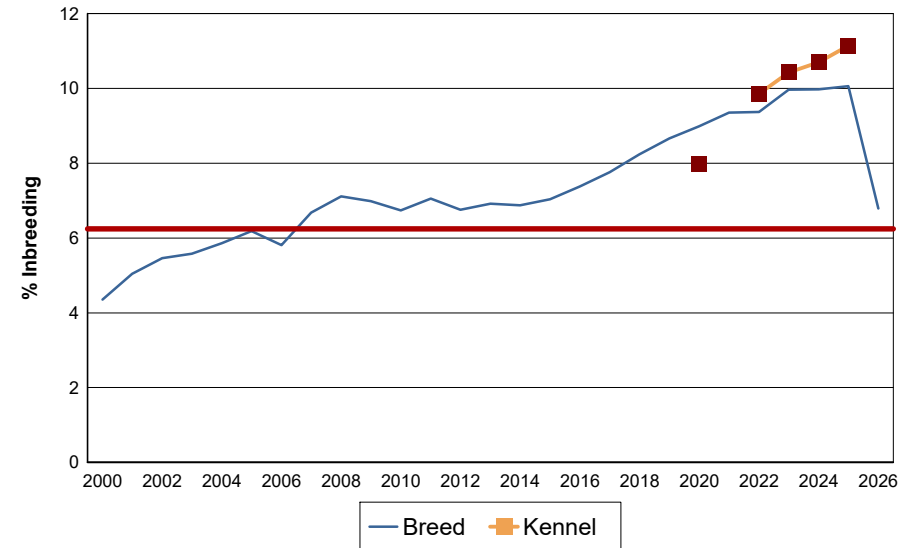
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

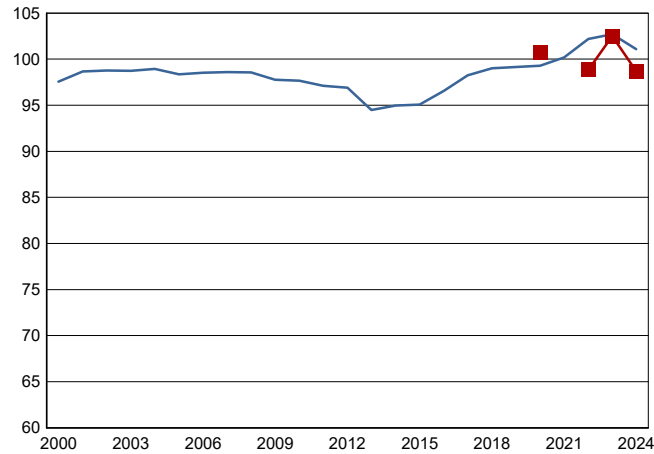


Inbreeding Levels

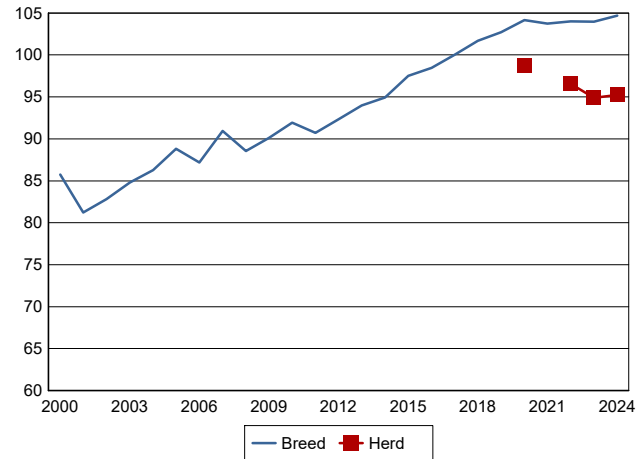
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	16	49007	8	25141	8	23857	8	3371	9	6287
Average Inbreeding	9.77	8.49	9.18	8.46	10.36	8.53	7.90	8.01	10.60	8.00
Number inbred	16	48727	8	24990	8	23728	8	24990	9	23728
Number >6.25% Inbr.	15	30600	7	15537	8	15058	4	15537	8	15058

Genetic Trends

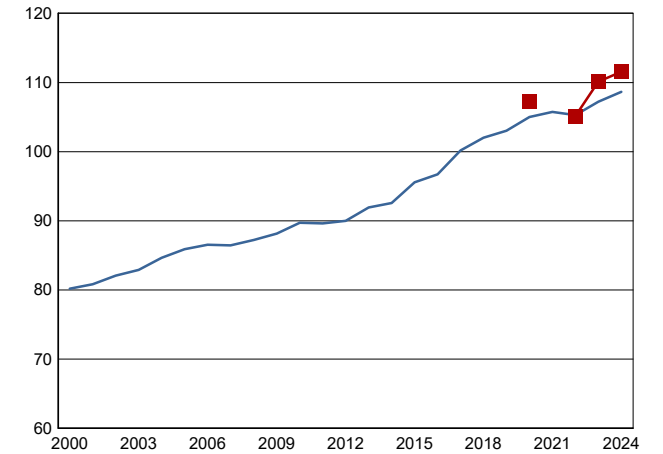
Litter Size



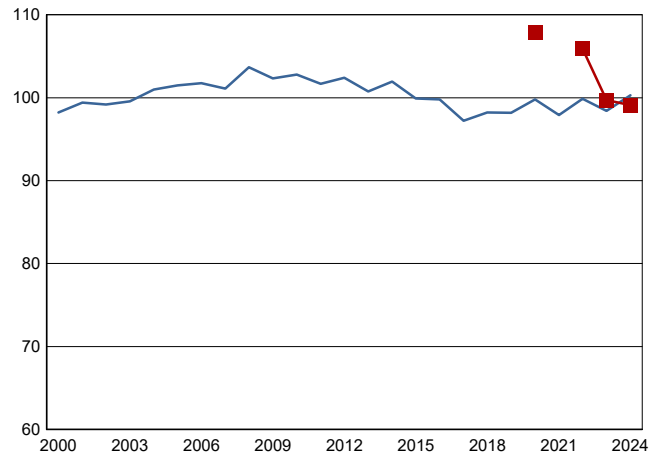
Movement



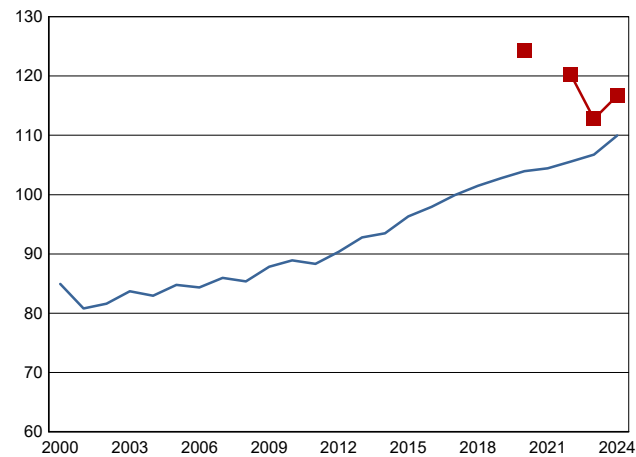
Temperament



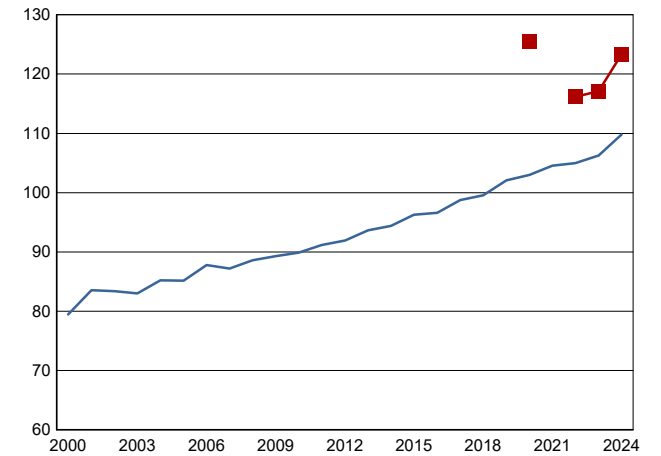
Coat



General Appearance

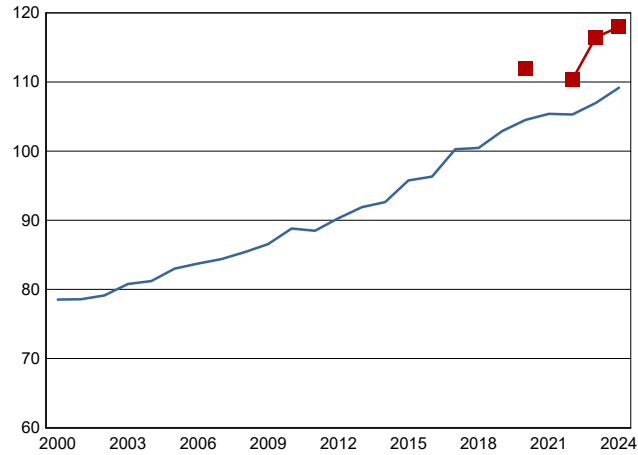


Head & Face

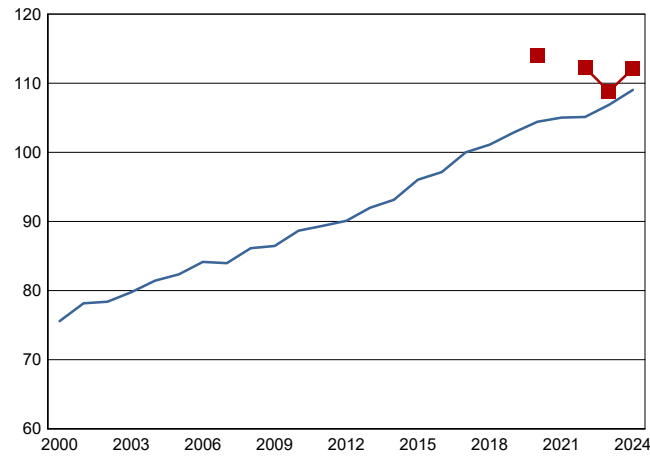


Genetic Trends

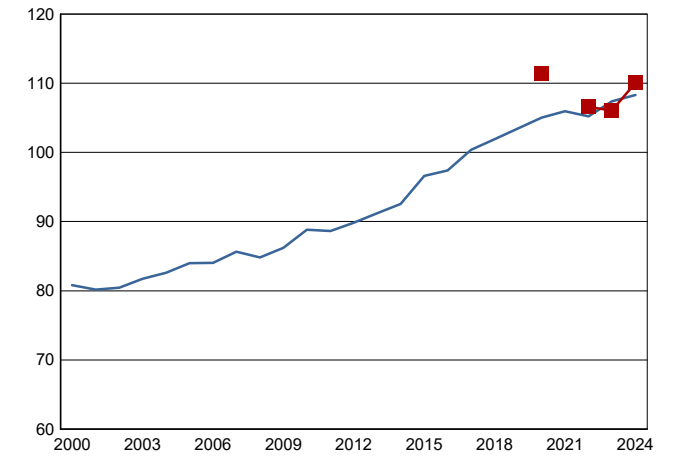
Front Quarter



Centre

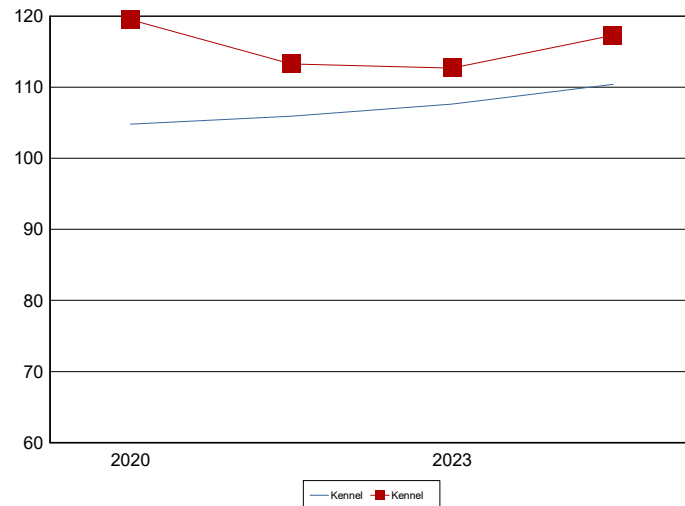


Hind Quarter

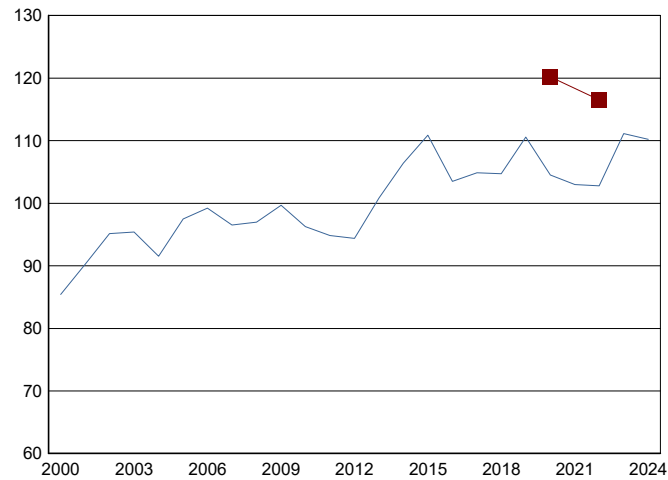


Final Score & Health Traits

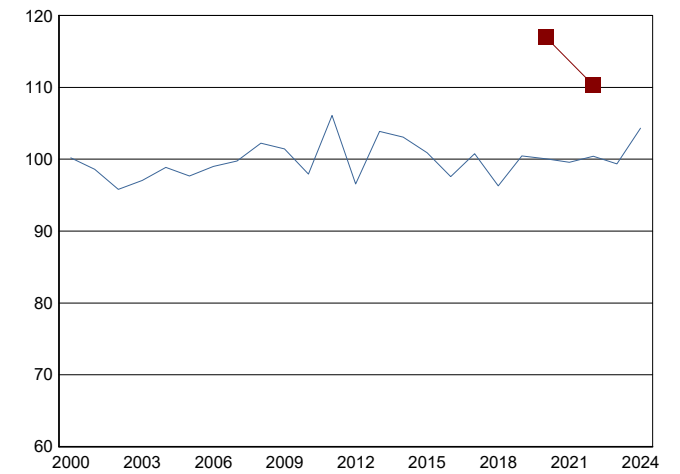
Final Score



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		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	litters
MIDDELPOS BBD BRUCE ALMIGHTY		AFRIKA LEO 5	5.84	127	106	106	86	104	108	119	125	112	109	111	117	48	8	27	2	2	16
	2017	MIGHTY AFRIKA ZELLIE		32	49	37	69	44	82	68	81	70	72	74	78			18			5
PAMPOENKRAAL APOCALYPSE		MIDDELPOS BBD BRUCE ALMIGHTY	9.95	118	96	108	91	117	116	125	133	120	112	114	125	63	6	16			3
	2020	KLEIN SANDFONTEIN LISA MARI		5	9	23	61	33	76	61	76	62	64	67	72			13			3
KLEIN WITWAL BBD AMIGO		MIDDELPOS BBD GAMKA	6.61	121		88	99	106	69	85	105	119	98	100	100	19	3	3			
	2022	TAILORED CYCLONE		5		26	54	30	68	53	67	54	56	59	63			3			
PAMPOENKRAAL DOUZER THE BULLDOZER		WESTPOINT DROGO	10.68	101	112	93	90	93	106	111	93	97	106	100	98						
	2022	KLEIN SANDFONTEIN LARA CROFT		5	5	12	45	6	64	44	62	46	48	51	57						
PAMPOENKRAAL OREO HUGH BISCUIT		PAMPOENKRAAL PABLO ESCOBAR	11.01	118	97	104	86	112	107	123	122	118	114	107	117	16	2	2			
	2022	KLEIN SANDFONTEIN LISA MARI		5	24	13	46	16	64	46	63	47	50	52	58			2			
PAMPOENKRAAL CASSIUS CLAY		WESTPOINT DROGO	8.25	106	105	96	92	97	118	113	114	107	108	106	111						
	2022	PAMPOENKRAAL HARLEY QUINN		5	5	5	29	5	43	28	42	30	32	34	38						
PAMPOENKRAAL HERE COMES THE BOOM		MIDDELPOS BBD BRUCE ALMIGHTY	9.95	118	96	108	95	112	106	113	121	117	111	111	117	13	3				
	2023	KLEIN SANDFONTEIN LISA MARI		5	9	23	52	26	67	52	66	53	55	58	62						
PAMPOENKRAAL POSEIDON		KLEIN WITWAL BBD AMIGO	11.14	118	111	95	95	107	86			114	102								
	2025	PAMPOENKRAAL COCO CHANEL		5	5	5	27	5	41		40	28	30	32	37						

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	
KLEIN SANDFONTEIN LISA MARI	2019	KLEIN SANDFONTEIN HUEY	11.86	109	86	110	96	119	104	116	110	119	112	108	113	25	4	11 8	1	1	7 1
		MES O` HARA		5	26	48	64	40	77	63	76	64	66	68	73						
PAMPOENKRAAL HARLEY QUINN	2020	MIDDELPOS BBD BRUCE ALMIGHTY	7.44	118	119	100	102	103	108	119	123	109	113	113	118	1	1				
		KLEIN SANDFONTEIN LARA CROFT		5	10	22	49	21	66	49	64	50	52	55	60						
PAMPOENKRAAL WANYA	2022	PAMPOENKRAAL PABLO ESCOBAR	11.01	115	101	104	94	111	104	121	118	115	113	107	115						
		KLEIN SANDFONTEIN LISA MARI		5	5	13	38	7	51	38	50	39	41	43	47						
PAMPOENKRAAL COCO CHANEL	2022	PAMPOENKRAAL PABLO ESCOBAR	11.01	115	101	101	91	107	103	119	112	109	106	103	109	6	1				
		KLEIN SANDFONTEIN LISA MARI		5	5	16	46	16	64	46	63	47	50	52	58						
PAMPOENKRAAL LUNA ECLIPSE	2023	MIDDELPOS BBD BRUCE ALMIGHTY	9.95	118	96	108	78	101	110	111	117	109	99	96	106						
		KLEIN SANDFONTEIN LISA MARI		5	9	23	51	25	66	50	65	52	54	56	61						
PAMPOENKRAAL O` MIGHTY ISIS	2023	KLEIN WITWAL BBD AMIGO	11.28	120	120	92	112	114	87	111	112	120	109	110	112						
		PAMPOENKRAAL KATE MOSS		5	5	5	40	5	59	39	58	41	43	46	52						
PAMPOENKRAAL VENUS	2024	PAMPOENKRAAL APOCALYPSE	9.37	110	104	98	93	111	112	133	139	117	119	116	128						
		PAMPOENKRAAL MARCIA MALLOW		5	5	5	41	5	61	41	59	42	45	48	54						
PAMPOENKRAAL TESLA	2024	KLEIN WITWAL BBD AMIGO	11.00	115	103	99	98		87	100	108	119	105	104	106						
		KLEIN SANDFONTEIN LISA MARI		5	5	18	36		48	35	47	36	38	40	44						

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
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	with litters	
KLEIN SANDFONTEIN HUEY		GROENBERG BBD RAMBO	5.01	105	72	117	119	129	116	124	102	126	117	124	120	162	28	63	13	13	47
	2014	KLEIN SANDFONTEIN KISSKA		52	64	67	81	64	89	80	88	81	83	84	87		55			10	
AFRIKA LEO 5		MIDDELPOS BBD ALPHA	5.38	120	110	108	75	101	109	105	124	121	98	98	110	30	8	15	4	4	13
	2015	AFRIKA BLITZY		48	61	59	72	55	80	71	80	72	74	75	78		12			1	
MIDDELPOS BBD BRUCE ALMIGHTY		AFRIKA LEO 5	5.84	127	106	106	86	104	108	119	125	112	109	111	117	48	8	27	2	2	16
	2017	MIGHTY AFRIKA ZELLIE		32	49	37	69	44	82	68	81	70	72	74	78		18			5	
MIDDELPOS BBD GAMKA		AFRIKA LEO 5	18.20	138	139	100	78	117	89	106	133	133	109	106	118	137	29	57	5	6	38
	2017	MIDDELPOS BBD DIXIE		34	50	56	81	60	89	80	89	81	83	84	87		42			9	
WESTPOINT DROGO		ZUKANDI ZUKO	4.77	93	91	93	82	91	128	107	106	104	103	99	104	11	2	9	1	1	4
	2019	ZOAR EVE		5	5	26	47	20	64	47	63	48	51	53	58		8			3	
PAMPOENKRAAL PABLO ESCOBAR		MIDDELPOS BBD BRUCE ALMIGHTY	7.44	120	117	97	91	104	104	127	125	111	113	106	116	7	1	5	1	1	4
	2020	KLEIN SANDFONTEIN LARA CROFT		5	7	23	52	23	69	51	68	53	56	58	63		4			1	
PAMPOENKRAAL APOCALYPSE		MIDDELPOS BBD BRUCE ALMIGHTY	9.95	118	96	108	91	117	116	125	133	120	112	114	125	63	6	16			3
	2020	KLEIN SANDFONTEIN LISA MARI		5	9	23	61	33	76	61	76	62	64	67	72		13			3	
KLEIN WITWAL BBD AMIGO		MIDDELPOS BBD GAMKA	6.61	121		88	99	106	69	85	105	119	98	100	100	19	3	3			
	2022	TAILORED CYCLONE		5		26	54	30	68	53	67	54	56	59	63		3				

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	
MIGHTY AFRIKA ZELLIE	2015	AFRIKA PATRON	7.03	125	115	107	90	87	76	101	99	85	98	104	95	10	3	5	1	1	2
		LINGA LONGA ZELITA		20	34	48	61	35	75	60	74	62	64	66	71			5			1
MES O` HARA	2016	MES MASCOT	18.58	109	103	90	105	116	93	106	103	119	119	115	112	17	4	8	1	1	8
		MES BEULA		5	5	60	64	40	77	63	77	65	67	69	73			7			2
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
TAILORED CYCLONE	2018	KLEIN WITWAL BBD TUSK	4.57	103	102	77	106	98	66	88	97	109	96	100	95	9	3	5			2
		TAILORED FOXY		5	5	33	50	22	66	49	65	51	53	55	60			5			1
KLEIN SANDFONTEIN LISA MARI	2019	KLEIN SANDFONTEIN HUEY	11.86	109	86	110	96	119	104	116	110	119	112	108	113	25	4	11	1	1	7
		MES O` HARA		5	26	48	64	40	77	63	76	64	66	68	73			8			1
PAMPOENKRAAL HARLEY QUINN	2020	MIDDELPOS BBD BRUCE ALMIGHTY	7.44	118	119	100	102	103	108	119	123	109	113	113	118	1	1				
		KLEIN SANDFONTEIN LARA CROFT		5	10	22	49	21	66	49	64	50	52	55	60						
PAMPOENKRAAL MARCIA MALLOW	2022	WESTPOINT DROGO	10.68	101	112	89	100	102	108	122	119	110	115	108	115	2	1	1			
		KLEIN SANDFONTEIN LARA CROFT		5	5	20	46	8	65	45	63	47	49	52	58			1			
PAMPOENKRAAL KATE MOSS	2022	MIDDELPOS BBD BRUCE ALMIGHTY	7.44	118	119	96	107	109	104	125	122	113	116	113	119	4	1	2			
		KLEIN SANDFONTEIN LARA CROFT		5	10	25	44	16	57	43	56	45	47	49	53			2			
PAMPOENKRAAL COCO CHANEL	2022	PAMPOENKRAAL PABLO ESCOBAR	11.01	115	101	101	91	107	103	119	112	109	106	103	109	6	1				
		KLEIN SANDFONTEIN LISA MARI		5	5	16	46	16	64	46	63	47	50	52	58						

