

Boerboel Genetic Evaluation

SA Stud Book
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Kennel Number: 685530



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.

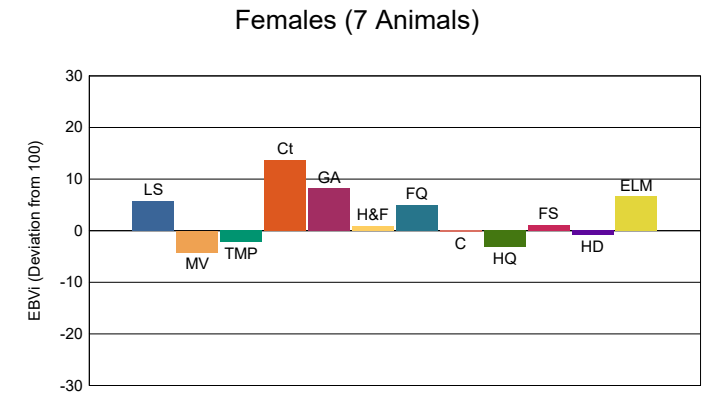
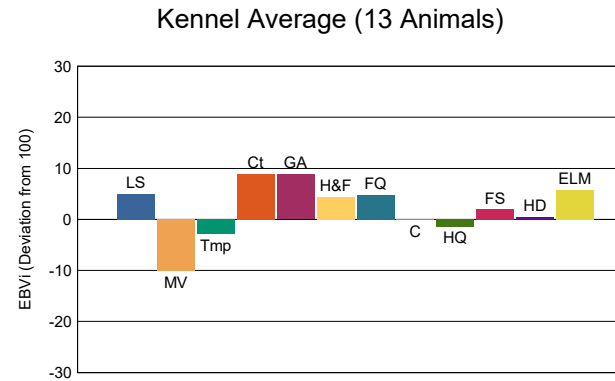
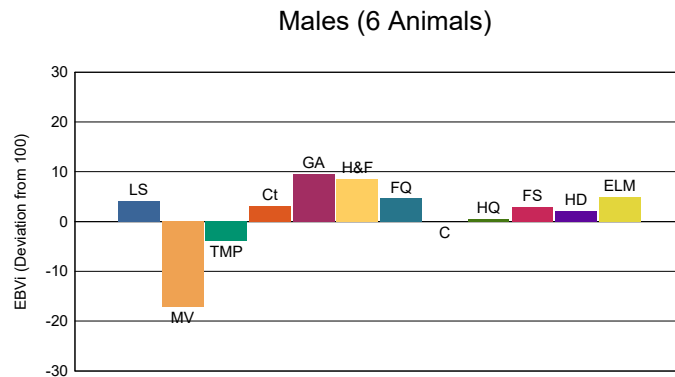
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	105	104	106
Movement (Mv)	90	83	96
Temperament (Tmp)	97	96	98
Coat (Ct)	109	103	114
General Appearance	109	110	108
Head & Face (H&F)	104	109	101
Front Quarter (FQ)	105	105	105
Centre (C)	100	100	100
Hind Quarter (HQ)	99	100	97
Final Score (FS)	102	103	101
Hip Health (HH)	100	102	99
Elbow Health (ELM)	106	105	107

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.

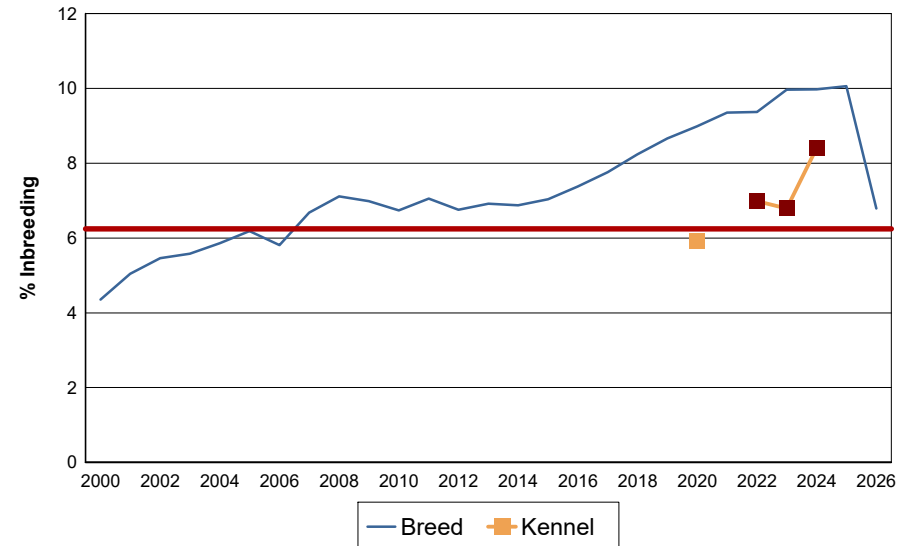
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

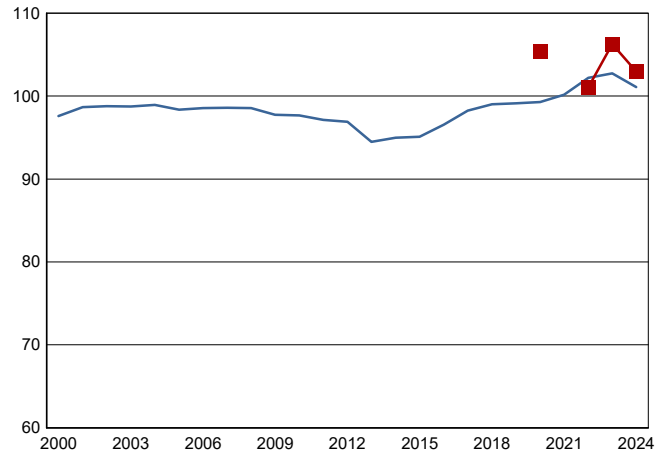


Inbreeding Levels

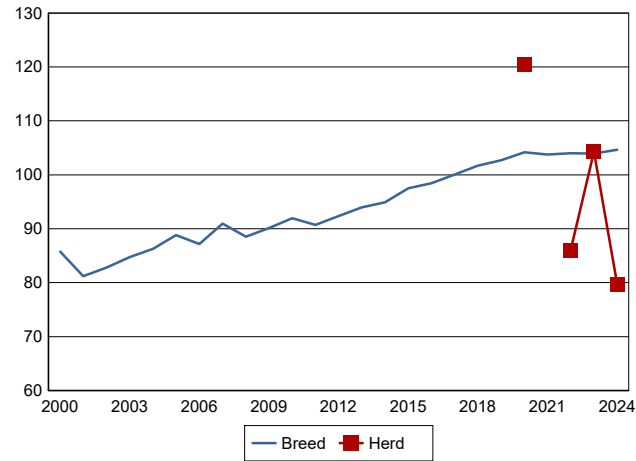
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	13	49007	6	25141	7	23857	7	3371	5	6287
Average Inbreeding	6.61	8.49	6.54	8.46	6.68	8.53	9.62	8.01	6.20	8.00
Number inbred	13	48727	6	24990	7	23728	7	24990	5	23728
Number >6.25% Inbr.	5	30600	2	15537	3	15058	5	15537	1	15058

Genetic Trends

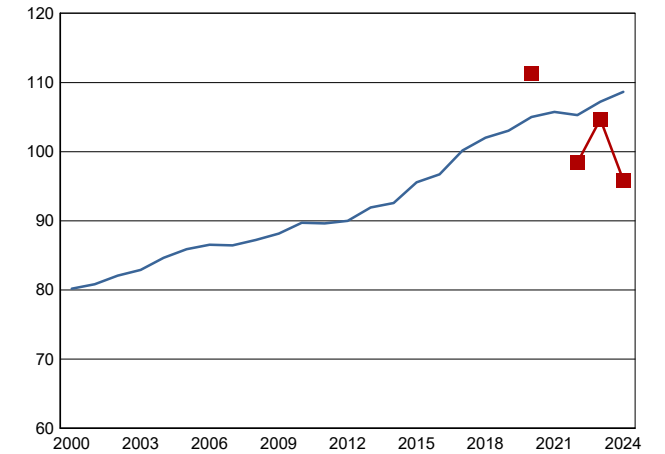
Litter Size



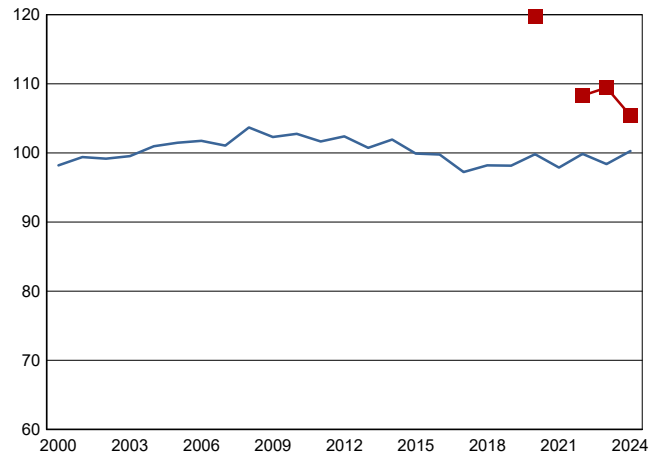
Movement



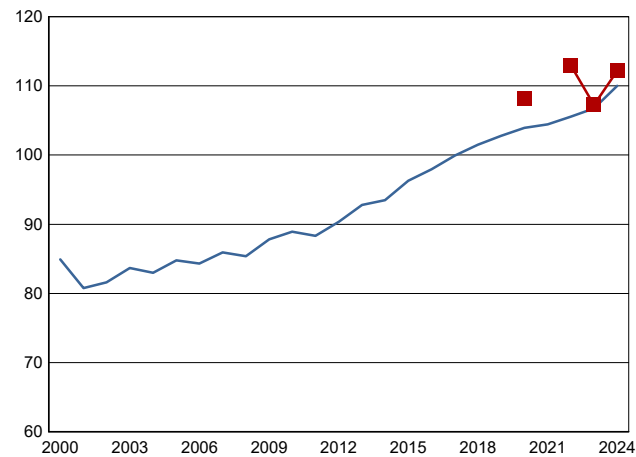
Temperament



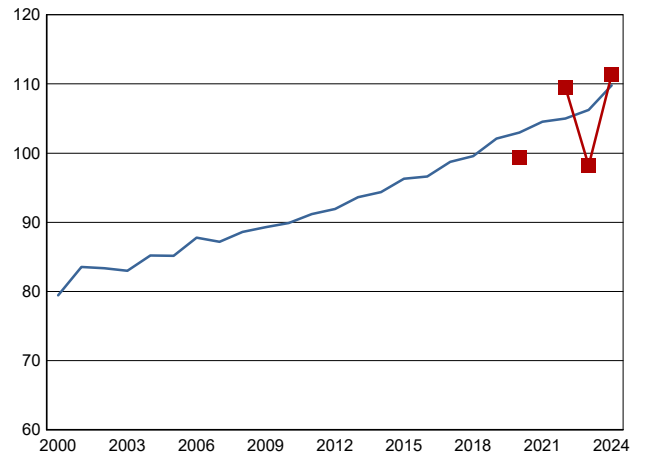
Coat



General Appearance

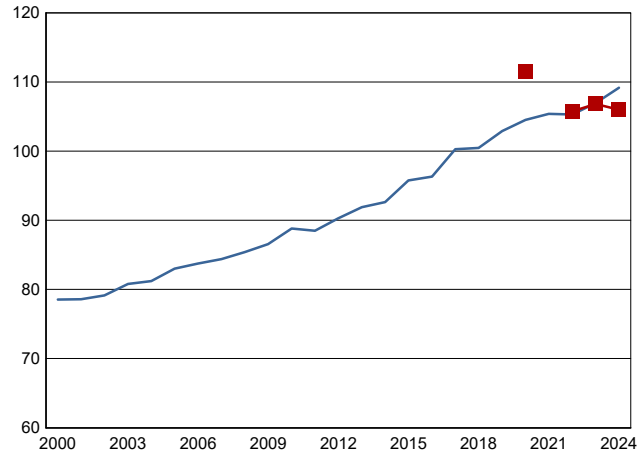


Head & Face

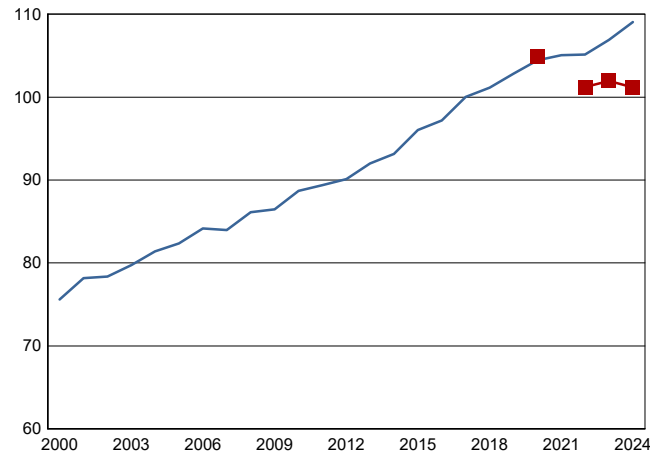


Genetic Trends

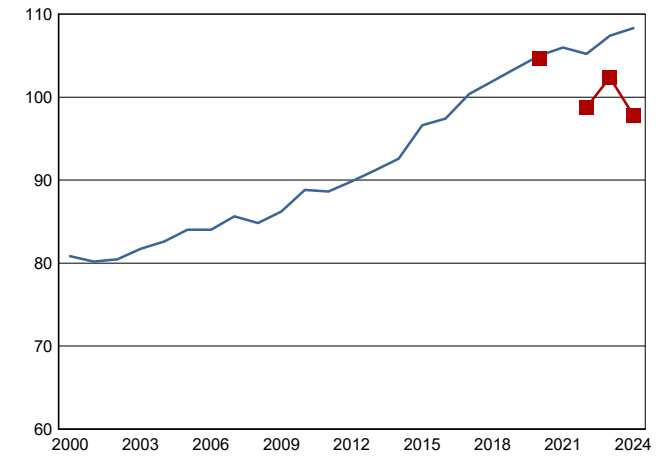
Front Quarter



Centre

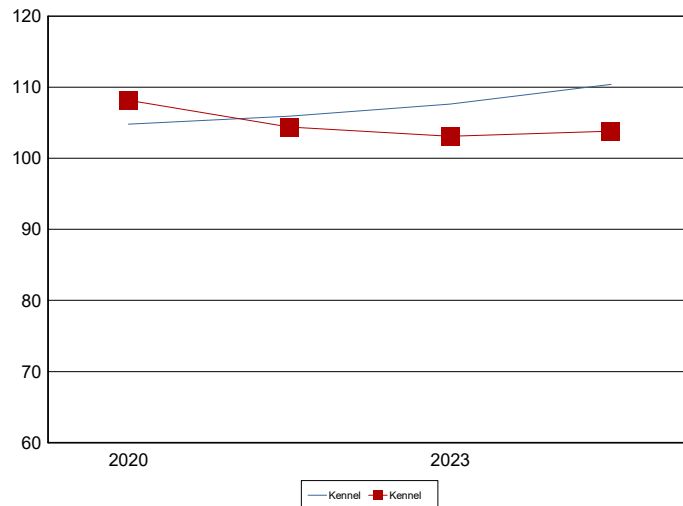


Hind Quarter

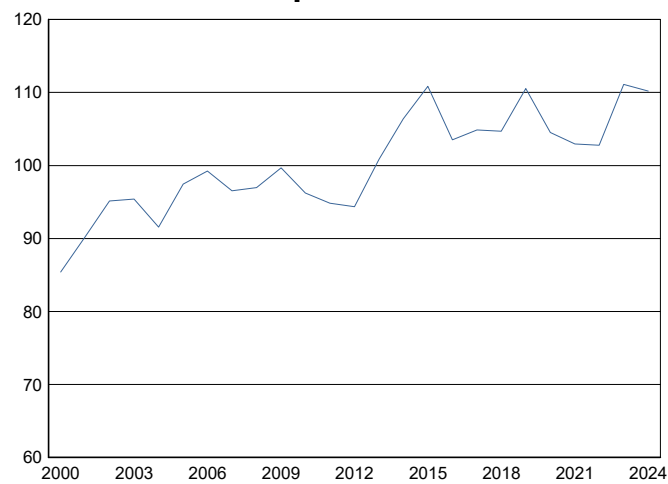


Final Score & Health Traits

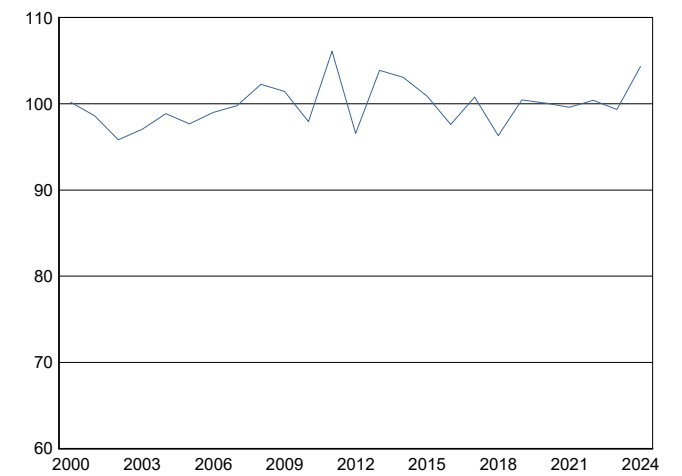
Final Score



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	
SAFIKA VOLCANO		HEAVY WEIGHTS VOLCANO	5.31	98	95	98	62	94	94	118	122	111	107	99	108	15	2	4			
	2022	SUBIRI KHLOE		5	5	7	45	15	62	44	61	46	48	51	56						
SAFIKA GUERILLA		KYLANO TAXMAN	6.12	105	106	98	83	94	125	113	118	109	100	95	108	7	1	1			
	2022	SUBIRI KHLOE		5	5	5	42	5	61	41	60	43	46	48	54						
SAFIKA BOBBY		THUNDER VALLEY HULK	10.07	101	109	111	108	105	89	100	78	93	96	108	92						
	2023	SAFIKA CLIVIA		5	5	5	36	5	56	35	55	37	40	43	49						
SAFIKA MILO		SAFIKA VOLCANO	6.85	101	100	105	89	100	114	114	107	108	104	100	106						
	2023	SAFIKA CLIVIA		5	5	5	22	5	39	22	38	23	26	28	33						
SAFIKA PANDA		MES DIMO	5.44	103	109	107	73	93	98	109	115	106	97	99	103						
	2024	SUBIRI KHLOE		5	5	12	42	11	58	41	57	42	45	47	53						
SAFIKA DICE		MES DIMO	5.44	103	109	107	82	92	100	105	110	101	96	101	101						
	2024	SUBIRI KHLOE		5	5	12	32	5	44	32	43	33	35	37	40						

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	
SUBIRI KHLOE	2020	BREKER FANUS	4.84	104	108	102	61	75	118	112	112	103	92	91	98	16	3	8			3
		ROBUST LEILA		5	5	31	55	29	70	54	69	56	58	60	65			6			1
SAFIKA CLIVIA	2020	KYLANO TAXMAN	5.93	103	105	113	117	105	134	110	92	106	100	101	104	23	3	8			1
		HEAVY WEIGHTS ZANDA		5	5	19	47	14	66	46	65	48	51	54	60			6			1
SAFIKA EL NINA	2022	CAVIN REGAL TEDDY	8.97	89	109	106	95	99	112	111	95	105	106	92	99	8	2	1			
		HEAVY WEIGHTS ZANDA		5	5	17	32	5	46	32	45	33	35	37	41			1			
SAFIKA BELLA	2022	CAVIN REGAL TEDDY	8.97	89	109	109	95	99	112	111	95	105	106	92	99						
		HEAVY WEIGHTS ZANDA		5	5	13	32	5	46	32	45	33	35	37	41						
SAFIKA NDONI	2023	KYLANO TAXMAN	5.93	103	105	106	130	112	116	99	89	108	99	104	103						
		HEAVY WEIGHTS ZANDA		5	5	13	44	9	61	43	60	44	47	50	55						
SAFIKA MILO	2023	KYLANO TAXMAN	6.68	102	100	98	91	102	104	109	111	107	99	97	104						
		SAFIKA SANDY		5	5	5	27	5	42	27	42	28	31	33	38						
SAFIKA NIKITA	2024	MES DIMO	5.44	103	109	107	82	92	100	105	110	101	96	101	101						
		SUBIRI KHLOE		5	5	12	32	5	44	32	43	33	35	37	40						

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	
BREKER FANUS		BREKER MENEER	15.68	97	107	76	68	71	92	94	111	102	92	104	98	151	21	41			27
	2017	BREKER BELLA		5	5	46	75	50	86	75	85	76	78	79	83		38				7
CAVIN REGAL TEDDY		MAKARIOS BBD EINSTEIN	6.84	77	112	102	75	94	107	116	94	98	105	82	92	14	1	5			1
	2018	SA EXTREME NIKITA		5	5	26	56	31	70	55	69	56	58	61	65		5				1
KYLANO TAXMAN		CRIHATA TROY	6.46	107	105	94	121	115	118	105	102	109	101	104	108	49	14	13			3
	2018	KAMMO BBD ASTRID		5	5	20	54	24	72	54	71	55	58	61	66		10				1
MES DIMO		MES MAC GYVER	4.70	102	111	111	104	108	82	97	108	99	100	111	105	12	3	1			
	2019	CABARET MANDIE		5	5	33	49	27	59	48	59	49	51	53	56		1				
THUNDER VALLEY HULK		TARGUS MAKAROV	17.52	99	113	108	100	110	76	105	89	97	105	116	99	1	1	1			
	2020	THUNDER VALLEY TAWNI		5	5	17	40	5	53	39	52	41	43	45	49		1				
HEAVY WEIGHTS VOLCANO		AFRIKA GHUNTER	10.81	92	82	94	70	106	68	119	121	106	108	99	106	19	2	8			3
	2021	JOSMOT MISS S.A.		5	5	24	59	33	74	59	73	60	62	65	69		7				1
SAFIKA VOLCANO		HEAVY WEIGHTS VOLCANO	5.31	98	95	98	62	94	94	118	122	111	107	99	108	15	2	4			
	2022	SUBIRI KHLOE		5	5	7	45	15	62	44	61	46	48	51	56		4				

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- r ament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
ROBUST LEILA	2015	MIDDELPOS BBD DUKE I	6.21	111	108	127	84	87	116	106	95	100	90	78	89	22	3	5			2
		AFRIKA HALEY SCHOLTZ		5	5	37	52	27	67	52	66	53	55	57	62			5			1
HEAVY WEIGHTS ZANDA	2018	BOUWER STOFFEL 1	8.70	100	106	117	115	105	117	107	97	112	106	103	106	19	4	9			3
		BOUWER SASHA 1		5	5	41	49	17	67	49	66	50	53	56	61			7			1
SUBIRI KHLOE	2020	BREKER FANUS	4.84	104	108	102	61	75	118	112	112	103	92	91	98	16	3	8			3
		ROBUST LEILA		5	5	31	55	29	70	54	69	56	58	60	65			6			1
SAFIKA CLIVIA	2020	KYLANO TAXMAN	5.93	103	105	113	117	105	134	110	92	106	100	101	104	23	3	8			1
		HEAVY WEIGHTS ZANDA		5	5	19	47	14	66	46	65	48	51	54	60			6			1
SAFIKA SANDY	2022	HEAVY WEIGHTS VOLCANO	5.31	98	95	102	61	88	90	113	121	105	97	91	101	5	2				
		SUBIRI KHLOE		5	5	20	41	11	57	41	56	42	44	47	51						

