

Boerboel Genetic Evaluation

SA Stud Book
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Kennel Number: 711198



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.

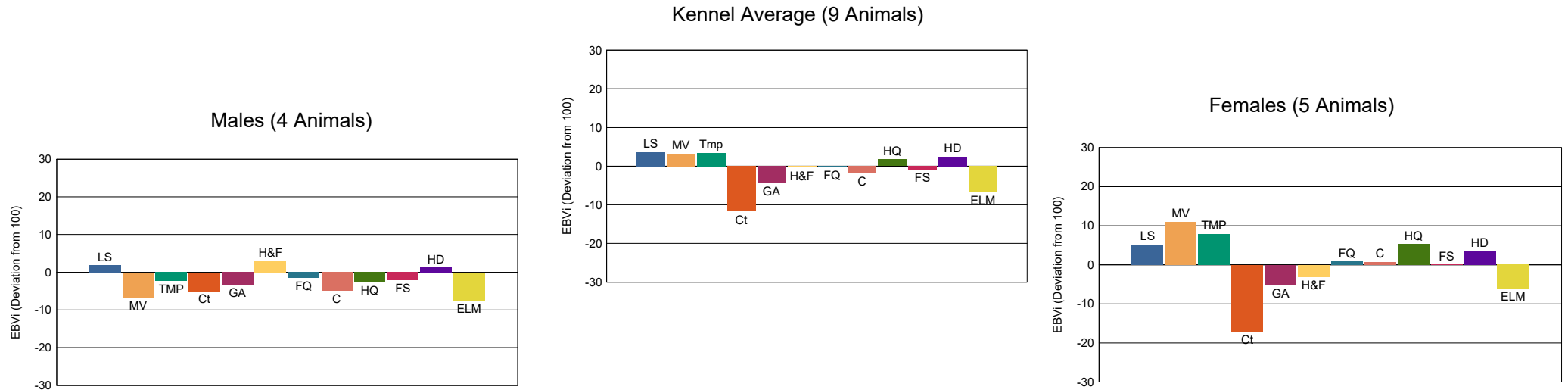
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	102	105
Movement (Mv)	103	93	111
Temperament (Tmp)	103	98	108
Coat (Ct)	88	95	83
General Appearance	96	97	95
Head & Face (H&F)	100	103	97
Front Quarter (FQ)	100	99	101
Centre (C)	98	95	101
Hind Quarter (HQ)	102	97	105
Final Score (FS)	99	98	100
Hip Health (HH)	102	101	103
Elbow Health (ELM)	93	93	94

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.

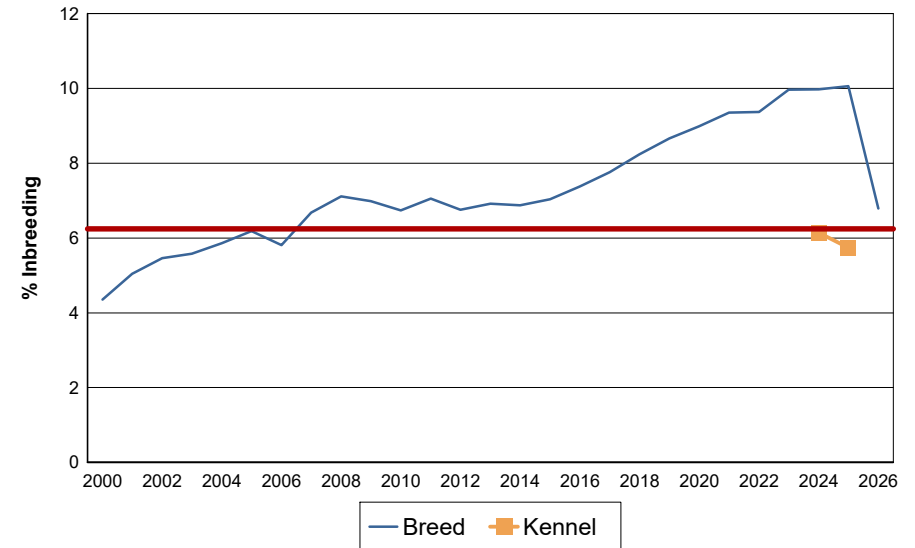
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

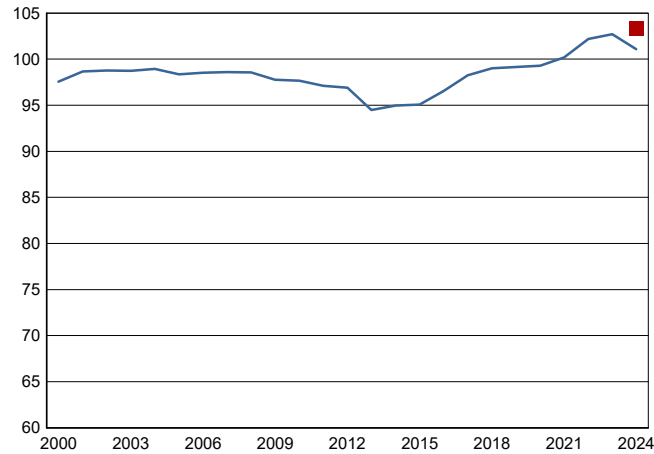


Inbreeding Levels

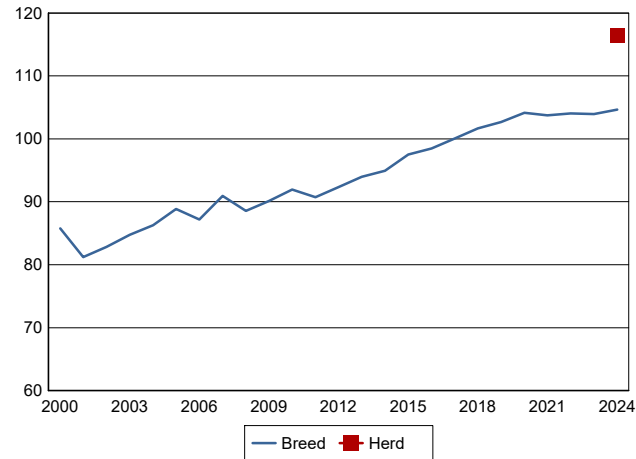
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	9	49007	4	25141	5	23857	7	3371	7	6287
Average Inbreeding	8.18	8.49	7.36	8.46	8.83	8.53	8.52	8.01	4.86	8.00
Number inbred	9	48727	4	24990	5	23728	7	24990	6	23728
Number >6.25% Inbr.	6	30600	2	15537	4	15058	4	15537	2	15058

Genetic Trends

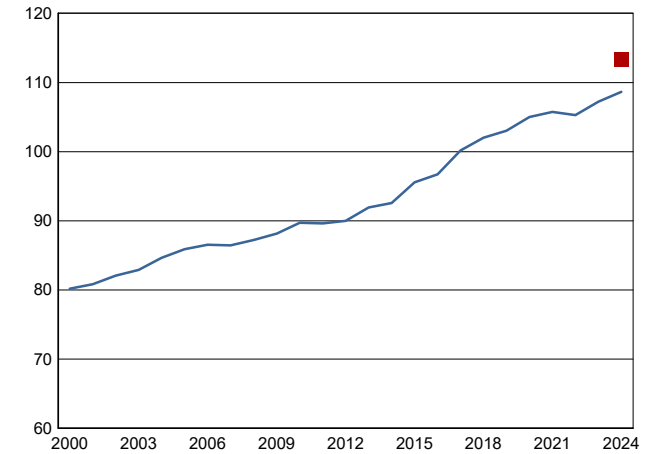
Litter Size



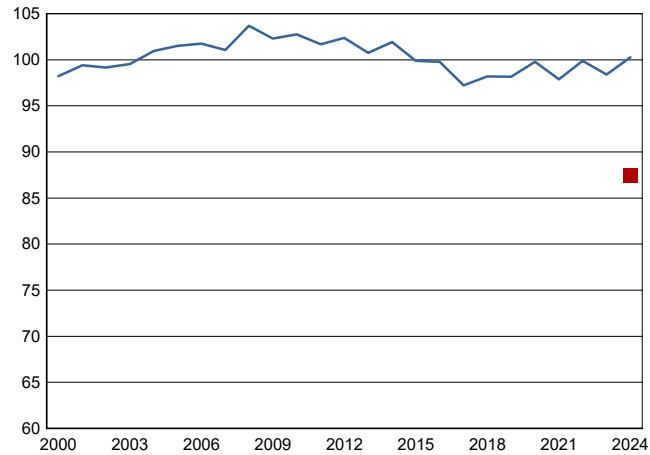
Movement



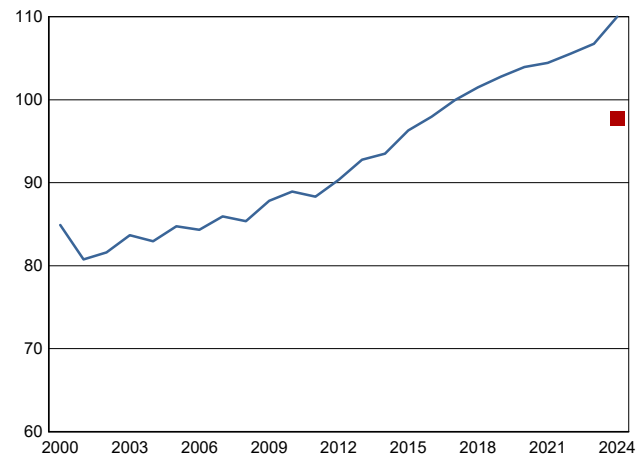
Temperament



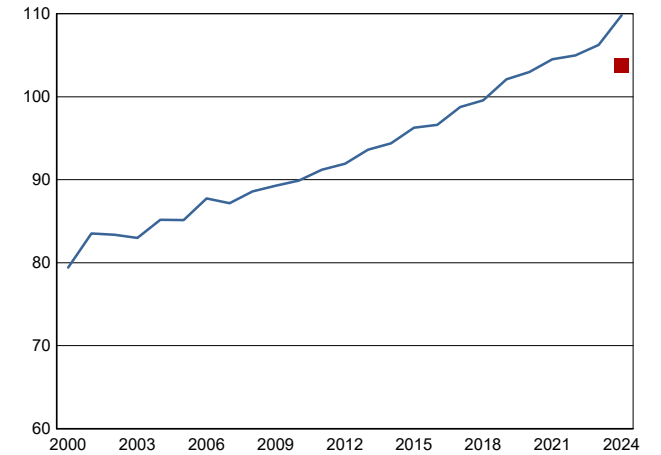
Coat



General Appearance

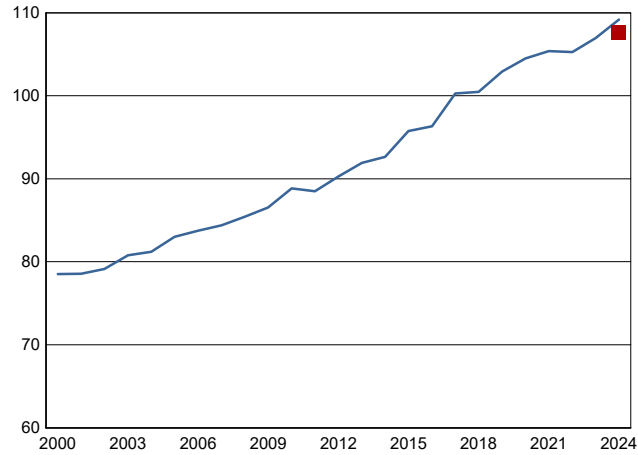


Head & Face

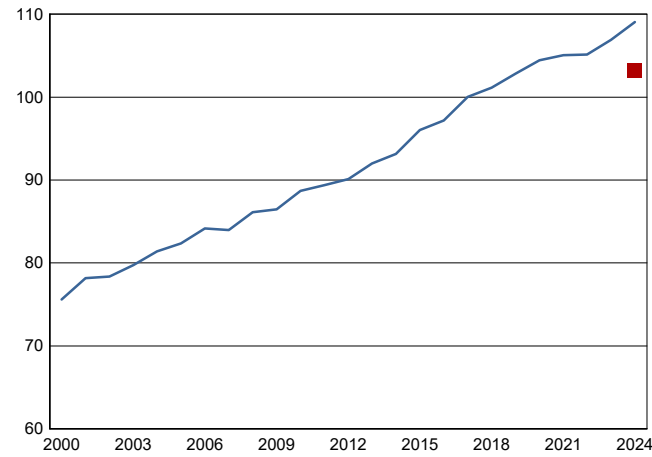


Genetic Trends

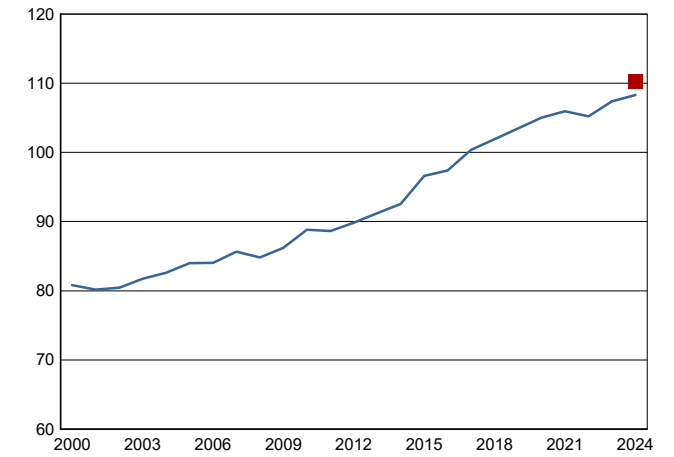
Front Quarter



Centre



Hind Quarter

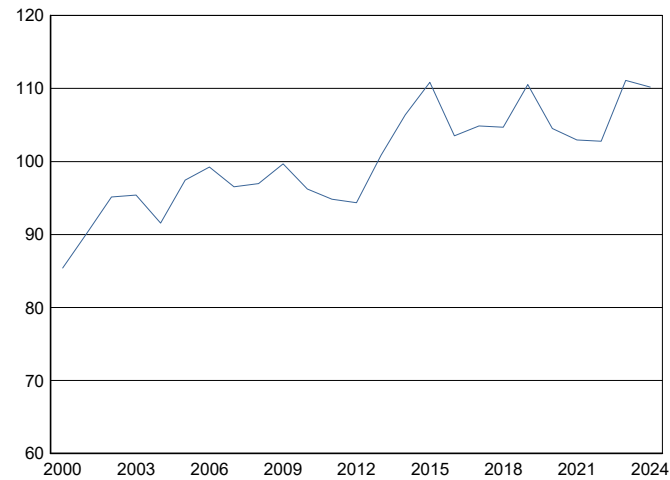


Final Score & Health Traits

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	
NERO LEGEND MAXIMUS		BAVANA'S PRIDE MIKE	9.02	92	80	103	114	96	90	88	88	91	88	85	87	4	1	1			
	2021	NERO LEGEND MALOU		5	5	5	24	5	47	23	46	25	29	33	40			1			
TOPGUARD KENNELS RUMBLE		MIDDELPOS BBD PABLO 1	5.37	106	80		87	95	87	99	108	98	87	85	93	6	3				
	2021	TOPGUARD KENNELS CHARLIE		20	40		23	5	35	22	34	23	25	27	31						
BCN ACHILLES		AFRIKA BOOMER	9.61	110	89	104	104	113	98	101	109	110	106	114	111	10					
	2021	AFRIKA LUNA III		5	5	23	35	10	46	35	46	36	38	39	43						
TOPGUARD KENNELS FLUNDER		COLOS THE HUNTER ORION	5.43	98	121	104	69	88	106	99	106	96	100	105	101	16	2				
	2022	MIDDELPOS BBD AMY I		5	5	21	47	22	61	47	61	48	50	52	57						

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	
NERO LEGEND MAIRA		BAVANA'S PRIDE MIKE	9.02	92	80	103	117	94	91	85	77	86	85	83	81	21	2				
	2021	NERO LEGEND MALOU		5	5	5	22	5	46	21	44	23	27	31	38						
BCN ARTEMIS		AFRIKA BOOMER	9.61	110	89	104	107	116	95	103	112	113	108	118	114	5	2	1 1			
	2021	AFRIKA LUNA III		5	5	23	37	12	48	36	48	37	39	41	45						
LA BOELA AGATHA		CDH JOKER	10.68	112	106	117	111	114	95	104	137	123	119	124	129	7	1				
	2022	LA BOELA RAVEN		5	5	24	44	17	60	43	59	45	47	49	54						
TOPGUARD KENNELS NADA		TOPGUARD KENNELS CUTHBERT	10.44	103	109	99	110	112	40	89	67	85	96	103	81	3	1				
	2022	TOPGUARD KENNELS BYKITA		5	5	5	30	5	54	29	52	32	35	39	46						
FEARLESS BBD CLEO		BCN ACHILLES	4.42	101	85	103	111	103	94	93	93	98	96	98	96						
	2024	NERO LEGEND MAIRA		5	5	5	14	5	30	13	29	15	18	20	25						

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
BAVANA'S PRIDE MIKE		PANCER MANDOLINO	4.40	97	101	107	121	97	93	85	84	91	89	91	88	16	2	3		5
	2014	BAVANA'S PRIDE ASANTE		5	5	19	29	5	45	29	44	30	32	35	40		2			2
MIDDELPOS BBD PABLO 1		AFRIKA LEO 5	12.17	117	108	98	77	86	97	107	123	100	79	77	95	15	1	8	1	4
	2018	MIDDELPOS BBD KERRIE		19	37	39	54	31	66	53	65	54	56	58	62		5			2
CDH JOKER		CDH KAROO	14.14	113	107	101	108	113	89	91	109	114	114	122	114	40	7	6		3
	2018	CDH MIA		5	5	41	57	37	68	57	67	58	59	61	64		6			2
AFRIKA BOOMER		AFRIKA RAMBOMAX	8.76	113	106	115	102	109	99	109	113	114	113	115	114	27	2	6	1	4
	2019	AFRIKA BUKIE		29	43	42	61	38	75	61	74	62	64	66	70		2			2
COLOS THE HUNTER ORION		TARGUS RAM	5.55	83	128	106	97	98	94	114	103	95	119	112	108	48	8	11		6
	2019	KLEIN SANDFONTEIN AKITA		5	10	42	65	43	78	65	77	66	68	70	74		4			2
TOPGUARD KENNELS CUTHBERT		ELEVATION ALPHONSE	5.03	115	112	94	118	118	71	105	86	101	103	108	98	13	1	2		1
	2021	TOPGUARD KENNELS DELTA		26	44	10	35	8	49	35	48	36	38	40	44		2			1
BCN ACHILLES		AFRIKA BOOMER	9.61	110	89	104	104	113	98	101	109	110	106	114	111	10				
	2021	AFRIKA LUNA III		5	5	23	35	10	46	35	46	36	38	39	43					

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	
TOPGUARD KENNELS CHARLIE		BESKERMER TURNER	4.90	105	100	96	96	103	76	92	94	96	95	93	91	7			6	6	4
	2016	TOPGUARD KENNELS HIPPO		5	5	5	21	5	37	20	36	22	25	27	32						1
AFRIKA LUNA III		MES RUBENSTEIN	5.62	106	73	92	106	117	96	94	106	105	99	112	107	19	2	1			2
	2018	VOLSPOED MEISIEKIND		18	27	49	55	35	68	55	67	56	57	59	63						1
NERO LEGEND MALOU		MASCOT MILLENIUM ERKIN HERO OF MY HEART	0.00	87	59	99	101	88	92	86	78	83	83	80	78	15	2	2			2
	2018	BAVANA'S PRIDE PEACH		5	23	5	22	5	34	22	33	23	25	26	30						1
LA BOELA RAVEN		MES MAC GYVER	6.26	110	104	134	116	113	84	103	127	108	108	128	122	28	4	5			2
	2019	LA BOELA CAPRI		26	44	50	55	34	68	54	67	55	57	59	63						1
MIDDELPOS BBD AMY I		BREKER MENEER	3.66	113	114	102	60	86	85	87	114	103	89	94	95	12	2	5			2
	2019	MIDDELPOS BBD JAX		5	5	39	59	36	72	58	72	59	61	64	68						1
NERO LEGEND MAIRA		BAVANA'S PRIDE MIKE	9.02	92	80	103	117	94	91	85	77	86	85	83	81	21	2				
	2021	NERO LEGEND MALOU		5	5	5	22	5	46	21	44	23	27	31	38						
TOPGUARD KENNELS BYKITA		SABA NERO	4.57	92	107	103	91	102	57	84	80	87	95	88	81	9	1	3			1
	2021	TOPGUARD KENNELS CHARLIE		24	39	13	34	5	51	33	50	35	37	40	45						1

