

Boerboel Genetic Evaluation

SA Stud Book
February 2026

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Kennel Number: 691526



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.

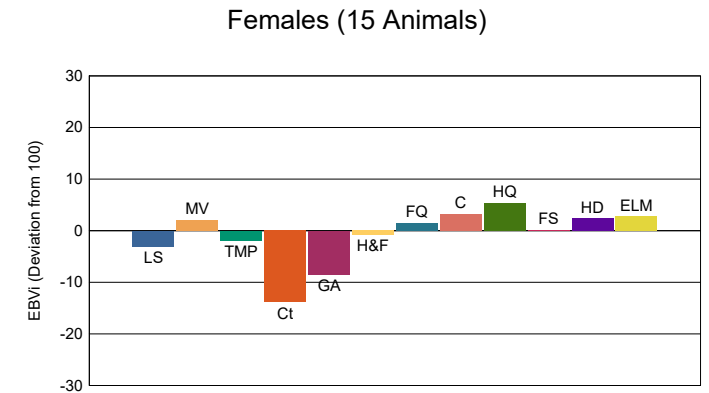
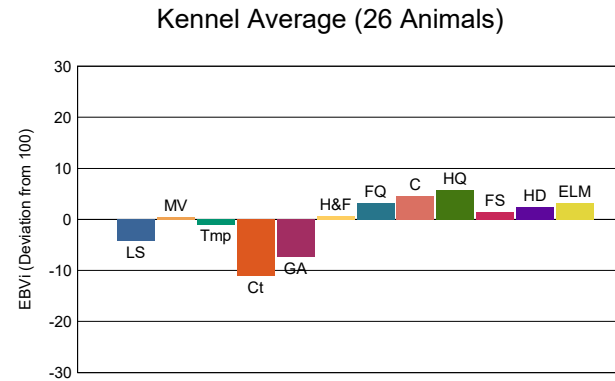
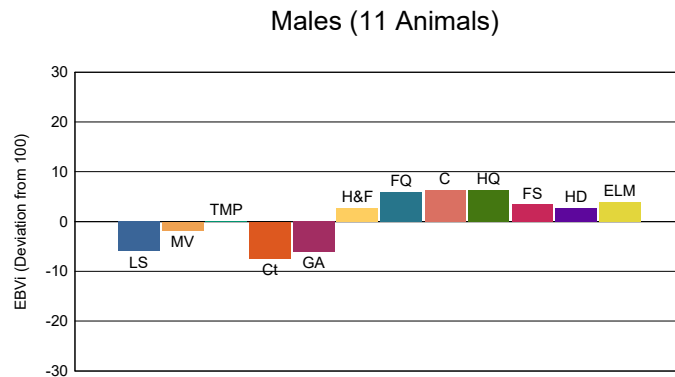
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	96	94	97
Movement (Mv)	100	98	102
Temperament (Tmp)	99	100	98
Coat (Ct)	89	93	86
General Appearance	93	94	92
Head & Face (H&F)	101	103	99
Front Quarter (FQ)	103	106	101
Centre (C)	105	106	103
Hind Quarter (HQ)	106	106	105
Final Score (FS)	101	103	100
Hip Health (HH)	103	103	102
Elbow Health (ELM)	103	104	103

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.

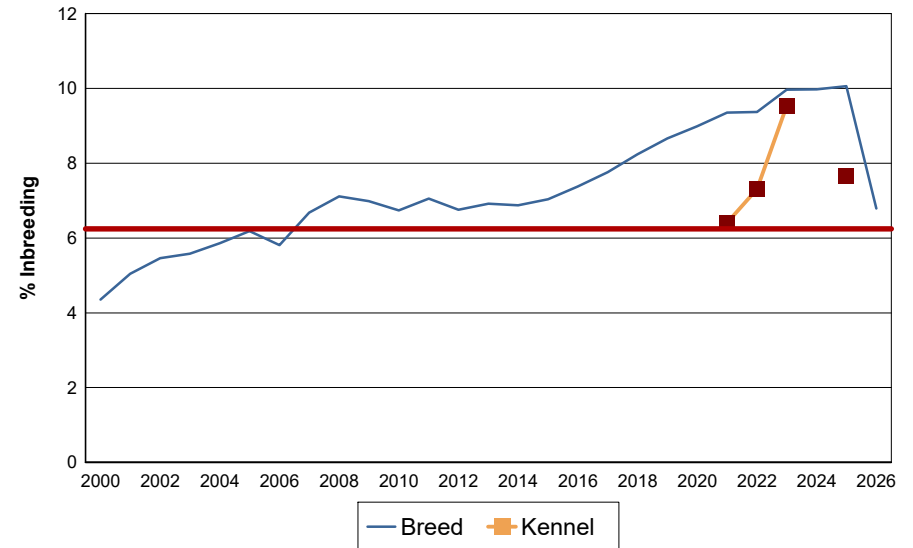
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

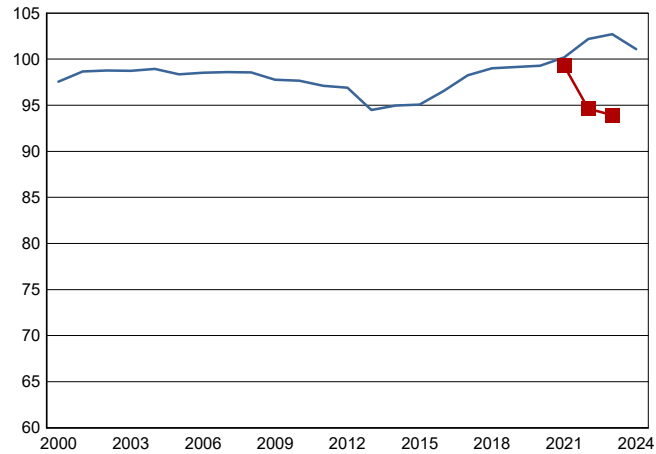


Inbreeding Levels

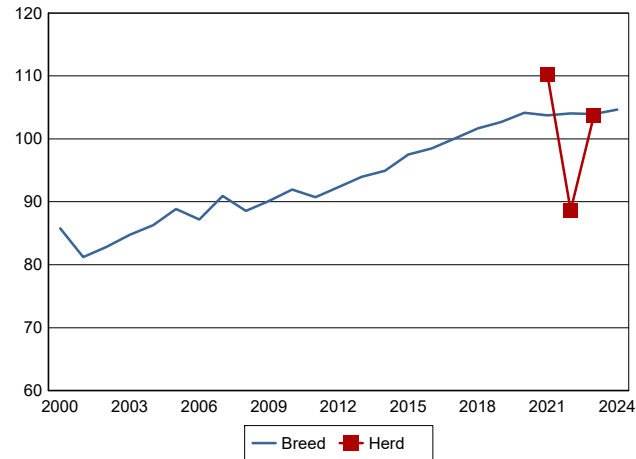
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	26	49007	11	25141	15	23857	14	3371	14	6287
Average Inbreeding	8.26	8.49	8.54	8.46	8.07	8.53	9.41	8.01	8.82	8.00
Number inbred	26	48727	11	24990	15	23728	14	24990	14	23728
Number >6.25% Inbr.	22	30600	10	15537	12	15058	13	15537	10	15058

Genetic Trends

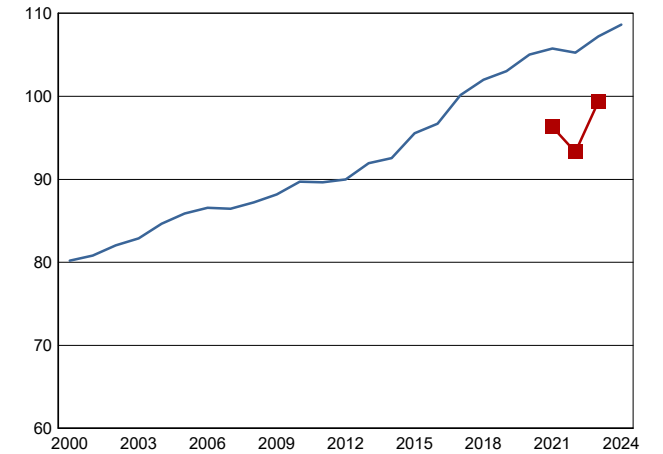
Litter Size



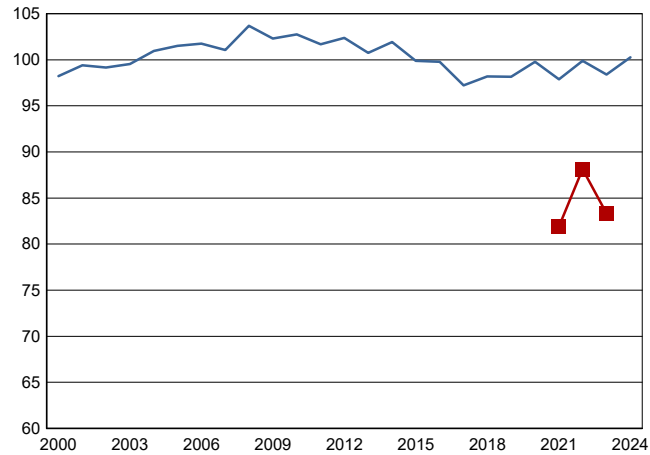
Movement



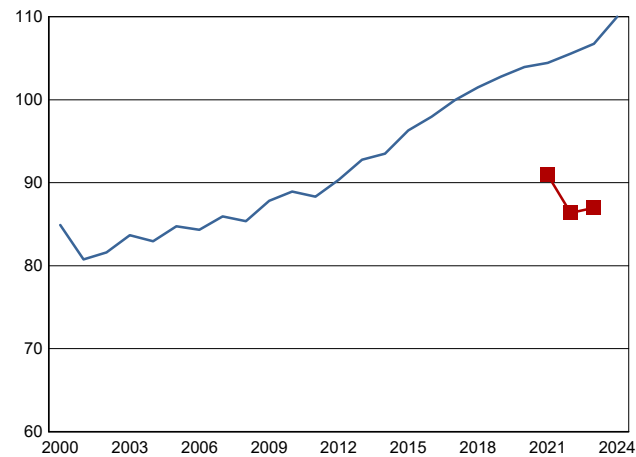
Temperament



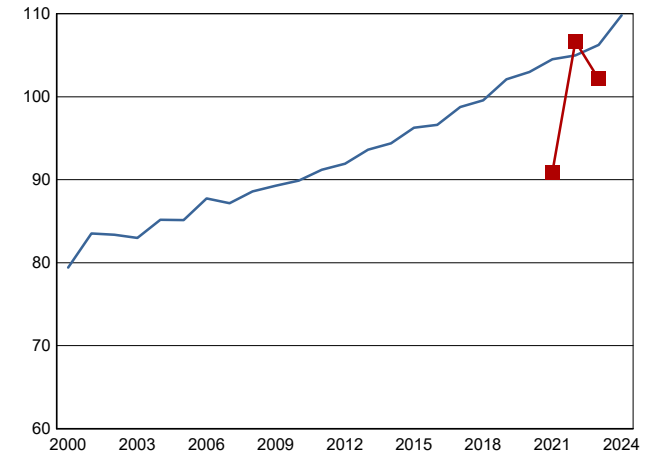
Coat



General Appearance

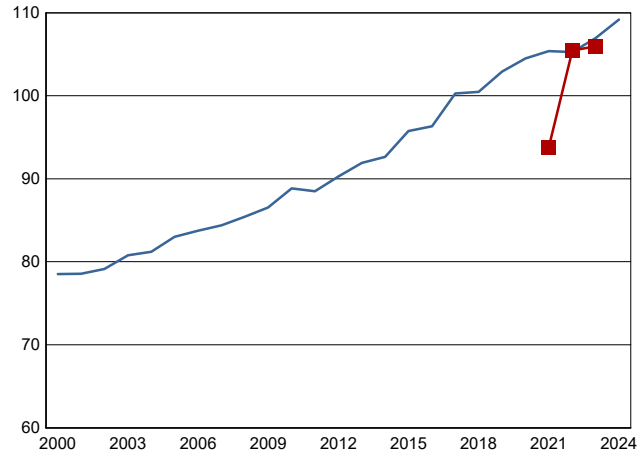


Head & Face

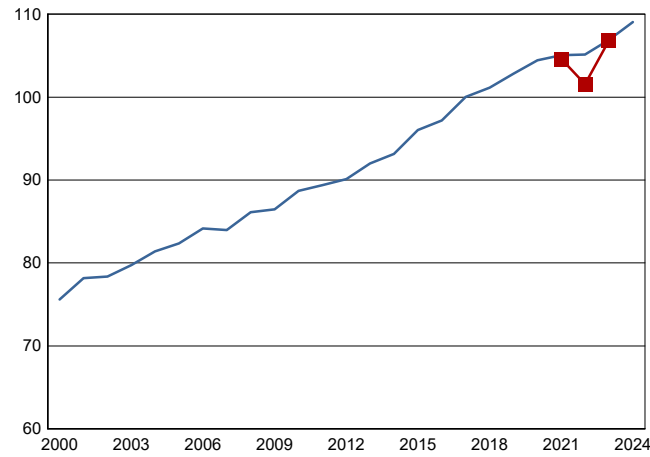


Genetic Trends

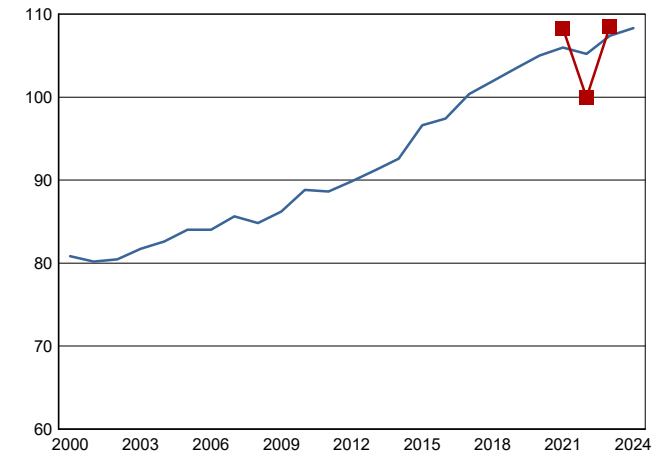
Front Quarter



Centre

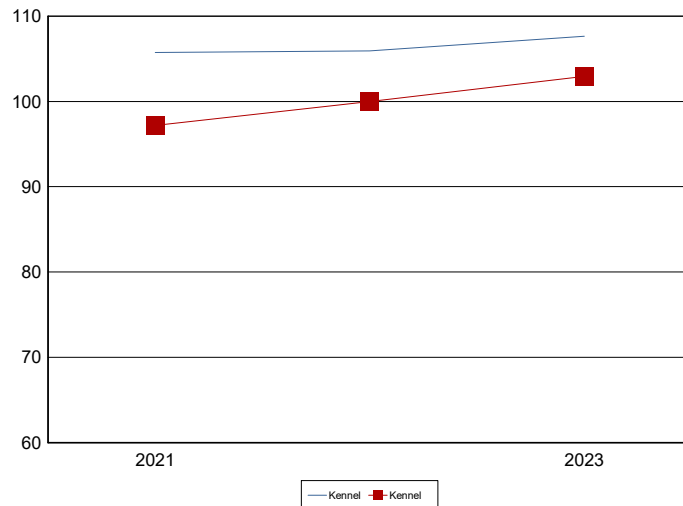


Hind Quarter

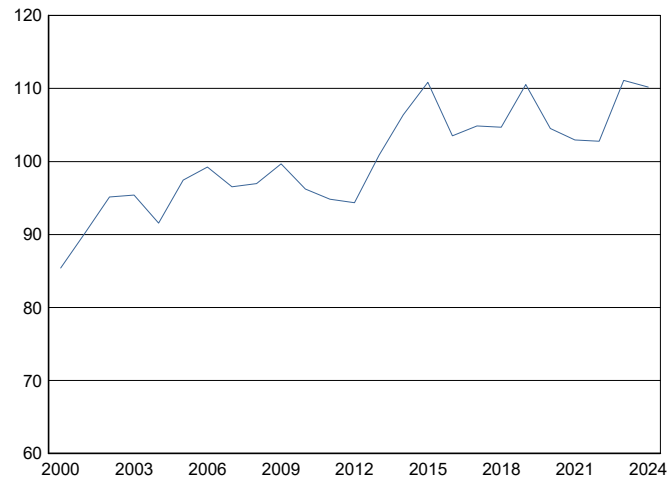


Final Score & Health Traits

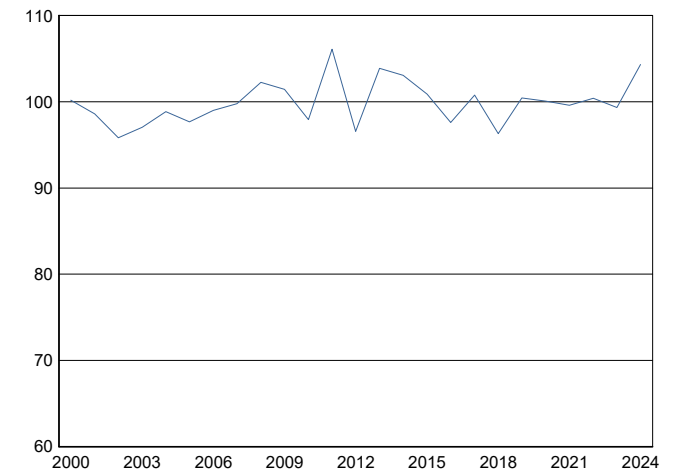
Final Score



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		Hips	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	
BYr	Dam	%	Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score			Kennels			
TOKARA THANOS	MES ZULU II	7.58	85	109	92	66	92	81	92	112	103	100	97	99	22	4	3			
	2020 TOKARA LOLA		5	5	21	52	22	69	50	68	52	55	58	63			2			
HVK XAVIER	ALEXANDER BBD LEGEND	6.92	107	101	101	118	95	83	90	90	88	104	117	99	4	1				
	2021 ROZEK MYSTIQUE		5	5	14	45	15	63	45	62	46	49	52	57						
VANCE SEBASTIAN 2	CDH SEBASTIAAN	8.97	110	113	91	90	111	108	93	99	117	111	106	106	2	1				
	2021 CDH MISS BUCKS		5	5	17	47	18	65	46	64	48	50	53	59						
HVK THUNDER	BRANDVLEI THOR I	12.90	99	94	78	114	112	113	109	110	113	111	109	114						
	2022 BOSTU GAMORA		5	5	11	34	5	46	34	45	35	37	39	42						
HVK CORVUS	TOKARA THANOS	6.05	97	103	100	87	90	80	80	103	100	98	107	98						
	2022 ROZEK MYSTIQUE		5	5	11	34	5	48	33	47	35	37	39	44						
HVK MAGNOR	ALEXANDER BBD H.V.K. MAGNETO	8.11	107	97	83	103	107	104	109	115	120	109	89	108	7	1	1			
	2022 BOSTU GAMORA		5	5	14	46	14	64	43	63	47	49	52	58			1			
HVK MAGNETO	ALEXANDER BBD H.V.K. MAGNETO	8.60	113	104	96	106	94	83	79	96	103	106	108	99						
	2023 HVK RAVEN		5	5	5	41	5	61	40	60	42	45	48	54						
HVK SCRATCH	VANCE SEBASTIAN 2	8.35	100	109	100	89	104	109	103	99	113	105	101	103						
	2023 BODINGTON BOERBOEL ZOE 1		5	5	5	27	5	43	27	42	28	31	33	38						
HVK HYPERION	HVK XAVIER	8.24	105	104	99	112	99	89	99	96	96	109	112	103						
	2023 HVK VIXEN		5	5	5	22	5	39	20	38	23	26	29	34						

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	
HVK ARES		ALEXANDER BBD H.V.K. MAGNETO	9.79	114	102	99	109	102	81	77	103	112	111	122	109						
	2023	ROZEK MYSTIQUE		5	5	9	43	8	62	42	60	44	46	49	55						
HVK OBSIDIAN		TOKARA THANOS	8.37	93	108	95	86	97	88	100	107	103	107	102	102						
	2025	HVK VIXEN		5	5	5	25	5	42	25	41	26	29	31	36						

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	
ALEXANDER BBD PISTACIO	2019	ELDORADO BBD MAGNUM	12.00	97	103	84	92	101	57	103	95	93	107	103	95						
		BOSTU LIANIE		5	5	26	51	25	67	51	66	52	54	57	62						
ROZEK MYSTIQUE	2019	PLAASWAG STEVENHOEK FERNANDO	5.23	109	97	109	109	87	79	68	95	96	96	116	97	20	4	5			2
		MES VANILLA		5	5	40	57	32	72	56	71	57	60	62	67			2			1
BOUWER LYLA 6	2021	BOUWER PANTHER	8.69	99	99	130	131	108	95	80	91	106	94	108	100						
		BODINGTON BOERBOEL ELECTRA		5	5	19	51	21	67	50	66	52	54	57	62						
LANDRE H V K WANDA	2021	MES BENOIT	8.04	114	102	81	89	100	113	100	107	103	109	115	110						
		LANDRE CLARA		5	5	17	48	19	65	47	64	48	51	53	59						
HVK RAVEN	2021	ALEXANDER BBD LEGEND	6.92	107	101	101	111	85	62	70	89	87	96	104	88	8	2	3			
		ROZEK MYSTIQUE		5	5	14	48	18	66	47	65	49	51	54	60			2			
HVK DRACARYS	2021	ALEXANDER BBD H.V.K. MAGNETO	5.91	102	107	97	102	100	92	96	91	99	104	102	97						
		BRANDVLEI CARMEI		5	5	5	31	5	45	29	44	31	34	36	41						
HVK VIXEN	2021	ALEXANDER BBD H.V.K. MAGNETO	5.91	102	107	97	106	103	95	108	102	104	113	107	106	7	1	1			
		BRANDVLEI CARMEI		5	5	5	43	5	63	40	62	44	47	50	56						
HVK VALKYRIE	2023	ALEXANDER BBD LEGEND	11.25	100	96	86	108	104	94	106	101	100	105	101	102						
		BOSTU GAMORA		5	5	14	35	5	47	34	46	35	37	39	43						
HVK ATHENA	2023	ALEXANDER BBD H.V.K. MAGNETO	8.60	113	104	96	113	98	69	77	98	105	106	114	101	7					
		HVK RAVEN		5	5	5	41	5	61	40	60	42	45	48	54						
HVK MARRY JANE	2023	VANCE SEBASTIAN 2	8.35	100	109	100	89	104	109	103	99	113	105	101	103						
		BODINGTON BOERBOEL ZOE 1		5	5	5	27	5	43	27	42	28	31	33	38						
HVK HESTIA	2025	TOKARA THANOS	7.15	99	107	94	90	95	75	85	105	104	103	105	100						
		HVK ATHENA		5	5	5	26	5	42	25	41	27	29	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	
HVK NOVA		HVK MAGNOR	8.56	108	97	96	106	97	91	89	105	108	103	102	102						
	2025	ROZEK MYSTIQUE		5	5	5	30	5	44	29	44	31	33	35	40						
HVK AURORA		HVK MAGNOR	8.56	108	97	96	106	97	91	89	105	108	103	102	102						
	2025	ROZEK MYSTIQUE		5	5	5	30	5	44	29	44	31	33	35	40						
HVK PROXIMA MIDNIGHT		TOKARA THANOS	8.37	93	108	95	86	97	88	100	107	103	107	102	102						
	2025	HVK VIXEN		5	5	5	25	5	42	25	41	26	29	31	36						
LALAS CRIMSON		KRIJGER KAPTEIN	7.46	84	108	95	95	95	84	101	100	94	99	96	96						
	2025	KUBUSIE CANADA		5	5	5	21	5	38	20	37	22	25	27	33						

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	Temper-ament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
PLAASWAG STEVENHOEK FERNANDO		PINNACLE BBD HAVOC	4.62	103	91	67	120	91	99	86	97	101	97	108	100	17	4	11	1	1	6
	2014	GIANTS OF AFRICA ATHENA		12	17	46	60	38	72	59	71	61	62	64	68			8			1
MES ZULU II		ULTRA-INYATHI KOJAK	9.11	92	105	92	75	90	83	73	109	100	81	94	92	34	10	12			7
	2017	LEESER MIEKE		5	5	25	60	31	76	59	75	61	63	66	71			9			5
ELDORADO BBD MAGNUM		CABARET SON OF A GUN	10.00	94	96	68	88	113	60	110	103	101	114	109	103	15	3	5			1
	2017	ELEVATION MAYBE		5	10	45	62	42	75	62	74	63	65	67	71			5			1
MES BENOIT		MES ARNOLD 1	10.39	109	96	76	109	109	95	100	116	111	108	110	113	75	12	22			9
	2018	MES LALLI		26	45	44	68	46	81	68	80	69	71	73	77			18			2
KRIJGER KAPTEIN		HEINEMAN GOETHE	6.35	87	108	93	93	90	100	99	101	96	96	88	94	56	6	3			
	2019	AUGUSTYN DOLLA ERASMUS		5	5	5	35	5	51	35	50	36	38	41	46			3			
CDH SEBASTIAAN		CDH SNIPER	14.14	115	113	84	102	124	103	106	104	125	122	121	117	25	6	6			3
	2019	MIDDELPOS BBD MIKI		5	5	39	59	35	73	59	73	60	62	64	69			6			3
ALEXANDER BBD LEGEND		LANDRE MAX	6.93	105	105	94	100	97	76	105	94	91	107	95	94	9	2	2			2
	2019	BOSTU LIANIE		5	5	29	55	29	70	54	69	56	58	60	65			1			1
BOUWER PANTHER		ARTIFACTS YSTER	17.06	95	97	105	124	98	103	83	96	104	97	108	101	16	2	8			5
	2019	BODINGTON BOERBOEL GUCCI		5	5	33	61	29	76	60	76	62	64	67	72			8			2
ALEXANDER BBD H.V.K. MAGNETO		BOSTU ALPHA	10.64	118	108	90	105	112	85	99	109	121	119	112	113	16	4	7			2
	2019	AFRIKA ZIVA 3		5	5	23	49	20	65	47	64	50	52	54	60			2			1
TOKARA THANOS		MES ZULU II	7.58	85	109	92	66	92	81	92	112	103	100	97	99	22	4	3			
	2020	TOKARA LOLA		5	5	21	52	22	69	50	68	52	55	58	63			2			
BRANDVLEI THOR I		MES BENOIT	10.93	103	100	79	112	113	114	111	113	117	119	112	118	3	2	1			
	2020	MES GULIETTA		5	5	27	53	29	69	53	68	54	56	59	64			1			
HVK XAVIER		ALEXANDER BBD LEGEND	6.92	107	101	101	118	95	83	90	90	88	104	117	99	4	1				
	2021	ROZEK MYSTIQUE		5	5	14	45	15	63	45	62	46	49	52	57						

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	
VANCE SEBASTIAN 2		CDH SEBASTIAAN	8.97	110	113	91	90	111	108	93	99	117	111	106	106	2	1		
	2021	CDH MISS BUCKS		5	5	17	47	18	65	46	64	48	50	53	59				
HVK MAGNOR		ALEXANDER BBD H.V.K. MAGNETO	8.11	107	97	83	103	107	104	109	115	120	109	89	108	7	1	1	
	2022	BOSTU GAMORA		5	5	14	46	14	64	43	63	47	49	52	58		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	
TOKARA LOLA	2014	SPITSVUUR BBD TOKARA DRIFTER	9.21	77	113	93	71	87	69	103	100	90	105	93	91	16	3	4			2
		KLEIN SANDFONTEIN KYLA		5	5	51	54	31	68	53	67	55	57	59	63			4			1
BOSTU LIANIE	2017	AFRIKA SAKABUKA	8.30	100	110	100	92	84	79	102	89	89	100	93	89	21	2	11			7
		BOSTU KIRRA		17	29	52	64	41	77	64	77	65	67	69	73			10			1
MES VANILLA	2017	MES ARNOLD 1	11.46	116	102	142	91	91	126	86	108	105	98	118	109	26	3	9			4
		MES MAXI		5	25	57	66	48	77	66	76	67	68	70	73			7			1
BRANDVLEI CARMEI	2019	ALEXANDER BBD HATORI HANZO	10.30	85	106	105	98	88	99	93	73	77	88	92	81	6	1	2			1
		ALEXANDER BBD LAYLA ALI		5	5	26	49	16	67	48	66	50	52	55	61			1			1
LANDRE CLARA	2019	MIGHTY MUFASA V	5.37	119	109	86	97	97	92	99	99	96	105	113	103	6	2	1			
		LANDRE MON-ANGEL		5	5	29	50	21	67	49	66	51	53	56	61			1			
BODINGTON BOERBOEL ELECTRA	2019	MES FELIX BOETA	9.61	104	101	154	121	110	86	80	88	110	102	114	101	23	3	7			3
		MAWEZA DEBIE		5	5	48	63	39	76	62	76	64	66	68	72			7			1
ROZEK MYSTIQUE	2019	PLAASWAG STEVENHOEK	5.23	109	97	109	109	87	79	68	95	96	96	116	97	20	4	5			2
		FERNANDO MES VANILLA		5	5	40	57	32	72	56	71	57	60	62	67			2			1
CDH MISS BUCKS	2020	AFRIKA BUCKSTEEN	5.12	106	113	98	99	104	108	91	90	104	96	98	96	9	2	2			1
		CDH NALA		5	5	44	56	32	70	55	69	56	58	61	65			2			1
BOSTU GAMORA	2020	BOSTU ZAZU	16.52	96	87	77	117	111	111	107	107	109	103	107	110	8	3	1			1
		MES ALUSHKA		10	35	46	58	35	70	57	69	58	60	62	66			1			1
KUBUSIE CANADA	2020	EAGLES NEST PLUTO	12.83	82	108	97	96	100	67	102	99	91	102	105	97	52	6	3			2
		FONT BOERBOELS TESSA		5	5	5	42	5	63	42	62	44	47	50	57			3			1
BODINGTON BOERBOEL ZOE 1	2021	BODINGTON BOERBOEL WOLVERINE	8.10	90	104	108	89	96	109	112	100	109	99	96	100	2	1				
		BODINGTON BOERBOEL EVE II		5	5	15	48	18	66	47	65	49	51	54	60						
HVK RAVEN	2021	ALEXANDER BBD LEGEND	6.92	107	101	101	111	85	62	70	89	87	96	104	88	8	2	3			
		ROZEK MYSTIQUE		5	5	14	48	18	66	47	65	49	51	54	60			2			

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	
HVK VIXEN		ALEXANDER BBD H.V.K. MAGNETO	5.91	102	107	97	106	103	95	108	102	104	113	107	106	7	1	1			
	2021	BRANDVLEI CARMEI		5	5	5	43	5	63	40	62	44	47	50	56			1			
HVK ATHENA		ALEXANDER BBD H.V.K. MAGNETO	8.60	113	104	96	113	98	69	77	98	105	106	114	101	7					
	2023	HVK RAVEN		5	5	5	41	5	61	40	60	42	45	48	54						

