

Boerboel Genetic Evaluation

SA Stud Book
February 2026

MR A. VARDY

PO BOX 7

0

TALLANGATTA

3700



Kennel Number: 675845



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.

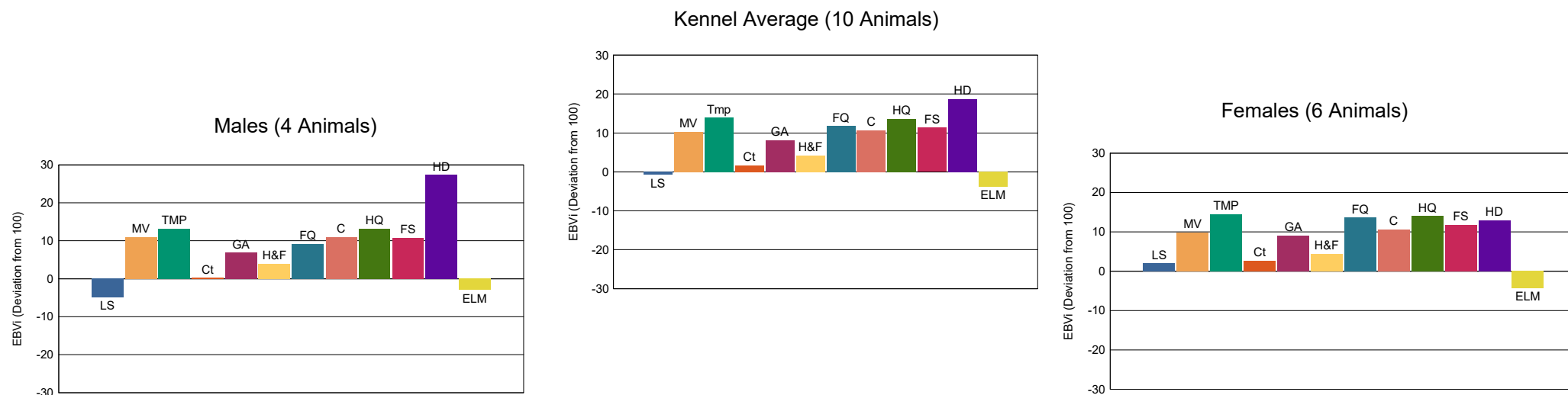
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	99	95	102
Movement (Mv)	110	111	110
Temperament (Tmp)	114	113	114
Coat (Ct)	102	100	103
General Appearance	108	107	109
Head & Face (H&F)	104	104	104
Front Quarter (FQ)	112	109	114
Centre (C)	111	111	111
Hind Quarter (HQ)	114	113	114
Final Score (FS)	111	111	112
Hip Health (HH)	119	127	113
Elbow Health (ELM)	96	97	96

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.

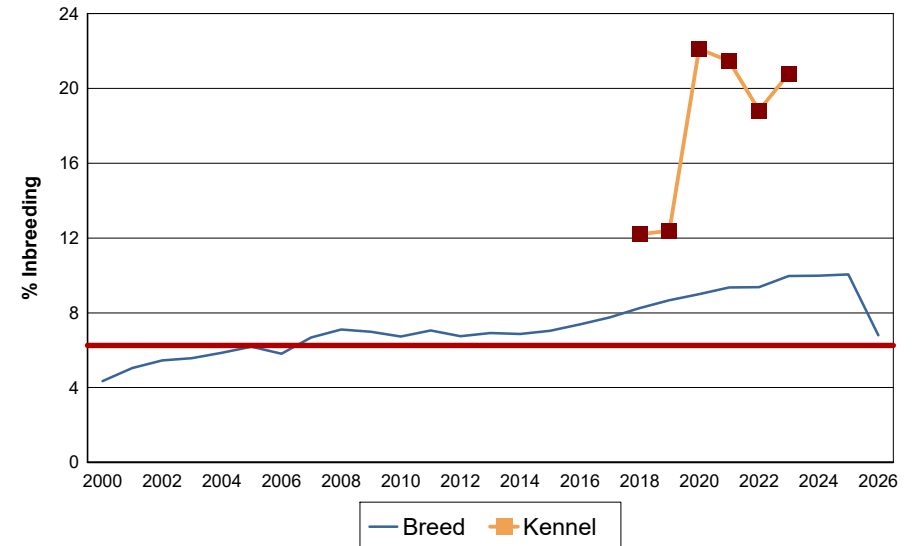
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

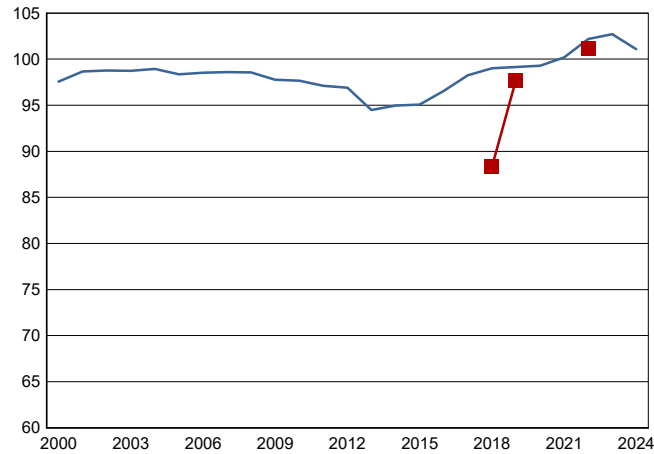


Inbreeding Levels

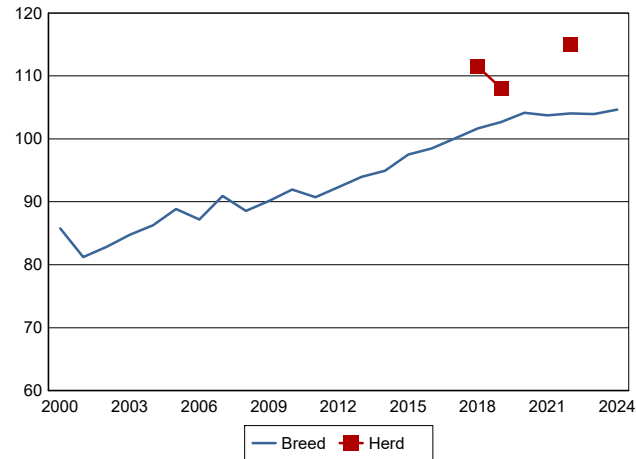
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	10	49007	4	25141	6	23857	5	3371	5	6287
Average Inbreeding	13.67	8.49	11.00	8.46	15.44	8.53	10.36	8.01	12.25	8.00
Number inbred	10	48727	4	24990	6	23728	5	24990	5	23728
Number >6.25% Inbr.	10	30600	4	15537	6	15058	5	15537	4	15058

Genetic Trends

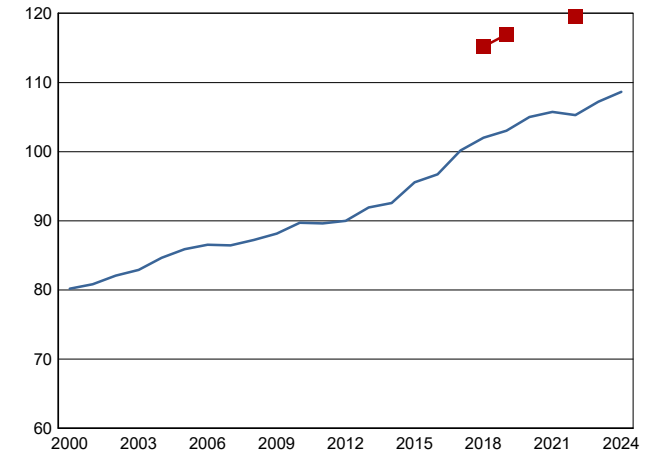
Litter Size



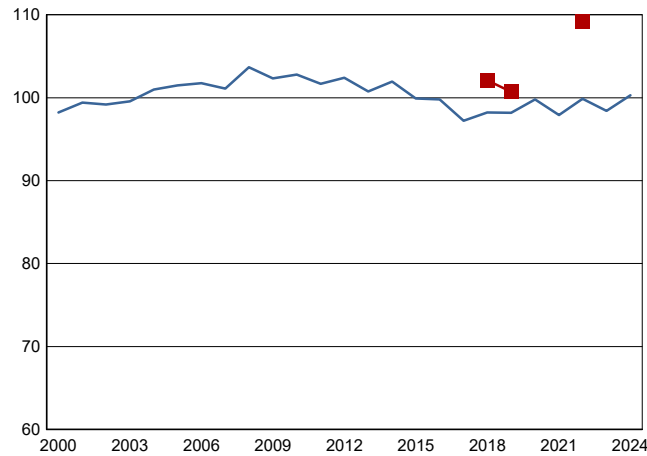
Movement



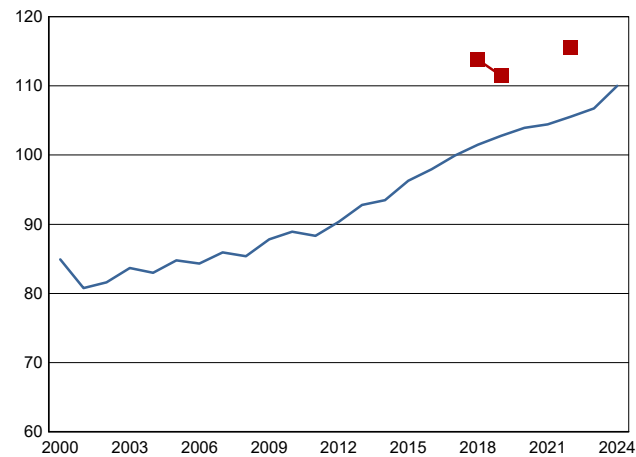
Temperament



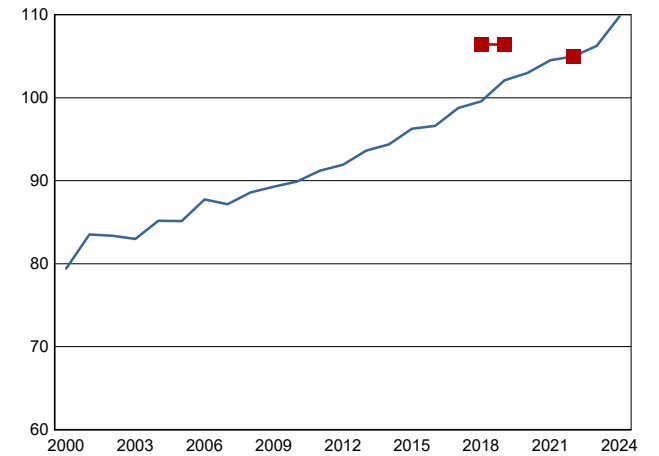
Coat



General Appearance

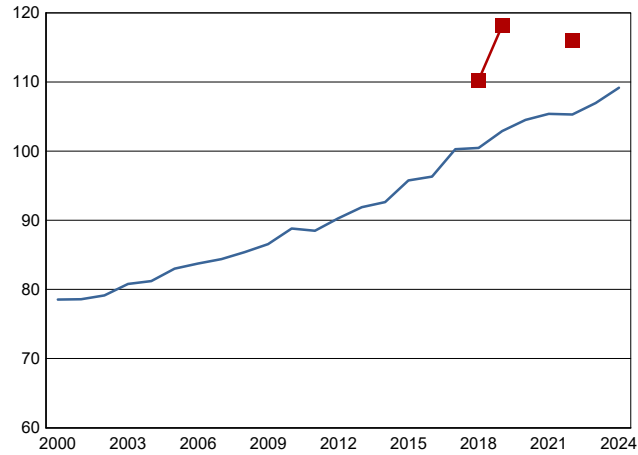


Head & Face

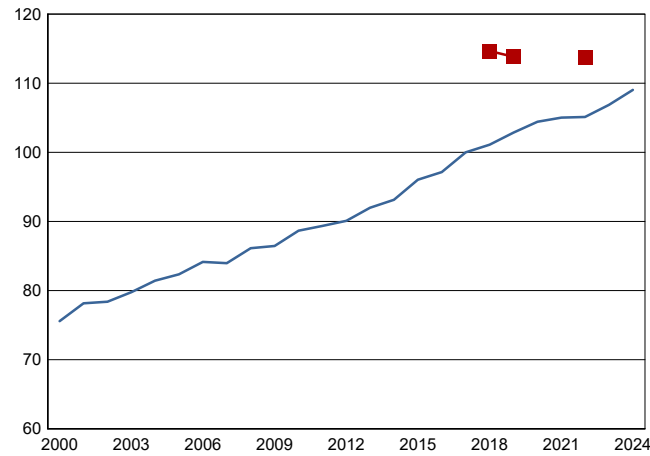


Genetic Trends

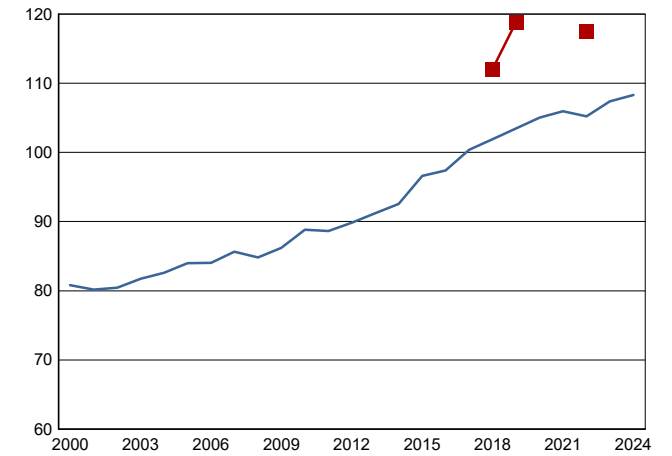
Front Quarter



Centre

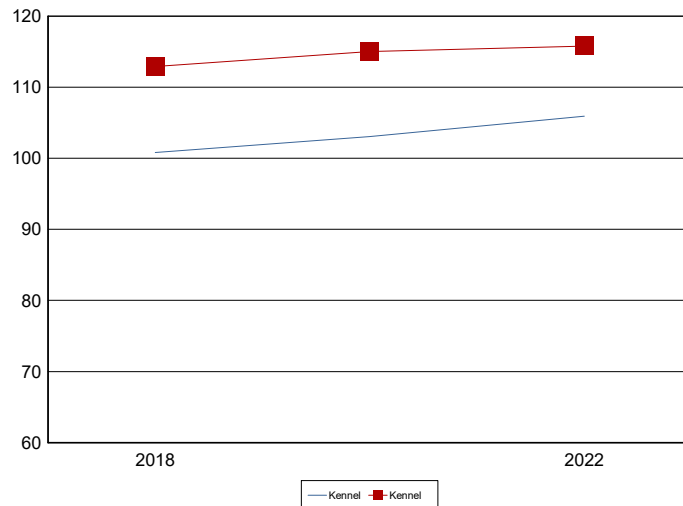


Hind Quarter

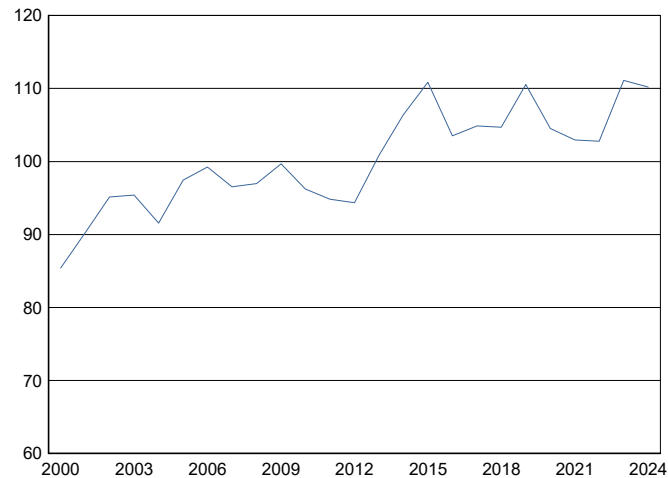


Final Score & Health Traits

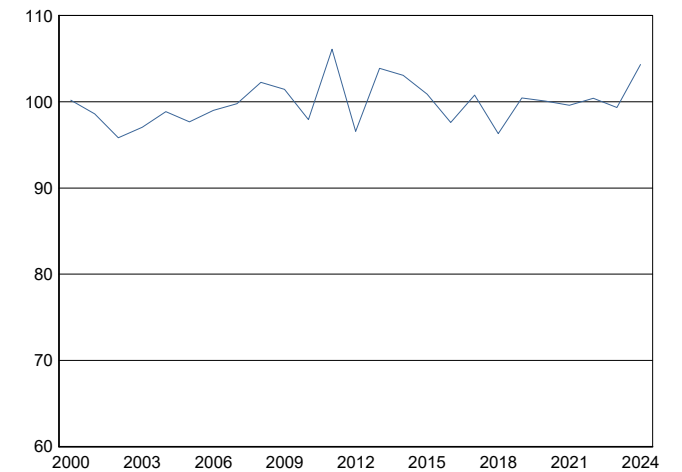
Final Score



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	
ELEVATION GIDEON		MIDDELPOS BBD IMPI	7.81	158	91	79	110	106	104	107	99	93	108	104	104	16	2	5			2
	2015	ELEVATION ZOEY		36	50	39	54	35	65	53	65	54	56	58	61						1
TOPDOG MOUNTAIN		ELEVATION ADAM	12.40	108	96	99	115	117	104	110	106	113	111	117	114	47	8	6			2
	2019	KLEIN SANDFONTEIN FANTASIA		5	22	30	41	18	54	41	53	42	44	46	50						1
TOPDOG FLASH		MIDDELPOS BBD OSCAR 1	10.08	122	101	106	108	110	95	101	103	109	106	109	107	2	1				
	2021	TOPDOG GINGER MEGGS		5	5	22	37	11	47	37	47	38	39	41	44						
TOPDOG HULK		MIDDELPOS BBD ALPHA	13.71	122	101	97	111	120	98	109	108	121	119	123	118						
	2022	TOPDOG GINGER MEGGS		5	19	35	43	28	50	43	50	43	44	46	48						

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	Progeny with litters
TOPDOG FERN	2019	ELEVATION ADAM KLEIN SANDFONTEIN FANTASIA	12.40	108 5	96 22	99 30	113 44	116 20	107 59	111 44	102 58	110 45	111 47	119 49	113 54	2	1				
TOPDOG CLEOPATRA	2019	MIDDELPOS BBD ALPHA KLEIN SANDFONTEIN FANTASIA	12.32	102 14	99 29	101 44	100 51	115 35	101 62	112 51	107 62	126 52	114 53	116 55	115 58	4	1				
TOPDOG WILLOW	2021	MIDDELPOS BBD OSCAR 1 TOPDOG GINGER MEGGS	10.08	122 5	101 5	107 28	108 37	110 11	95 47	101 37	103 47	109 38	106 39	109 41	107 44	5	1				
TOPDOG KITKAT	2021	MIDDELPOS BBD OSCAR 1 TOPDOG GINGER MEGGS	10.08	122 5	101 5	106 22	108 37	110 11	95 47	101 37	103 47	109 38	106 39	109 41	107 44						
TOPDOG CLEO 2	2021	TOPDOG MOUNTAIN TOPDOG SHEBA	24.43	110 5	87 5	103 5	115 5	120 5	109 25	116 5	105 24	116 5	114 5	118 10	116 18						
TOPDOG ROSE 1	2021	TOPDOG MOUNTAIN TOPDOG DAISY	23.34	113 5	91 5	97 5	114 5	116 5	109 20	114 5	106 19	113 5	114 5	114 5	114 10						

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	
MIDDELPOS BBD IMPI		ELEVATION ZULU	8.37	149	81	58	122	110	113	110	111	98	113	103	112	42 7	19 18	8 6		15
	2011	MIDDELPOS BBD ROXI		45	44	56	69	48	80	69	79	70	72	73	77					4
MIDDELPOS BBD ALPHA		GROENBERG BBD RAMBO	8.21	125	117	108	101	118	94	105	112	131	119	126	120	176 37	89 62	20 20		72
	2012	MIDDELPOS BBD TRIX		57	63	79	87	74	92	87	92	87	88	89	91					19
MIDDELPOS BBD OSCAR 1		LOWEN BUFFEL	6.46	125	115	126	96	99	88	88	103	106	92	97	97	186 29	42 32			20
	2014	MIDDELPOS BBD DIXIE		30	5	51	75	52	86	75	86	76	78	80	83					4
ELEVATION ADAM		GROENBERG BBD RAMBO	16.34	135	109	103	118	115	108	106	97	100	106	117	109	85 12	18 17	1 1		11
	2014	ELEVATION MIEKKIE		39	51	57	67	47	80	67	79	68	70	72	76					6
TOPDOG MOUNTAIN		ELEVATION ADAM	12.40	108	96	99	115	117	104	110	106	113	111	117	114	47 8	6 3			2
	2019	KLEIN SANDFONTEIN FANTASIA		5	22	30	41	18	54	41	53	42	44	46	50					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- r ament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Litters	Progeny Kennels		Hips	Elbows	
ELEVATION ZOEY	2013	GROENBERG BBD RAMBO	4.78	144	101	92	90	105	92	112	104	100	109	102	104	9	2	7	4	4	6
		MIDDELPOS BBD BIANCA		44	45	57	66	50	77	66	76	67	68	70	73						
KLEIN SANDFONTEIN FANTASIA	2016	KLEIN SANDFONTEIN HUEY	9.93	80	82	94	109	119	100	119	111	123	117	116	118	22	3	9			6
		KLEIN SANDFONTEIN ASHANTI		29	46	50	52	32	64	51	63	53	54	56	60						
TOPDOG DAISY	2018	ELEVATION GIDEON	12.21	119	86	96	113	115	113	118	105	112	117	111	114	13	2				2
		KLEIN SANDFONTEIN FANTASIA		5	21	28	36	5	51	35	50	37	39	41	46						
TOPDOG GINGER MEGGS	2018	ELEVATION GIDEON	12.21	119	86	86	121	121	102	114	104	112	119	120	116	11	2				2
		KLEIN SANDFONTEIN FANTASIA		5	21	29	36	5	51	35	50	37	39	41	46						
TOPDOG SHEBA	2020	KLEIN SANDFONTEIN HUEY	22.11	112	79	108	116	122	114	121	104	119	117	118	117	8	1				
		TOPDOG DAISY		5	5	25	36	5	47	35	46	37	38	40	44						

