

Boerboel Genetic Evaluation

SA Stud Book
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DE LA CARENA
DEL MAS BELLBER NO 40
ESPANA
BARCELONA



Kennel Number: 696313



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.

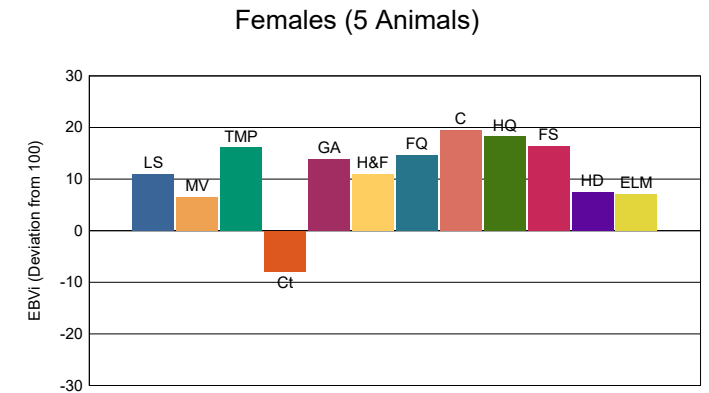
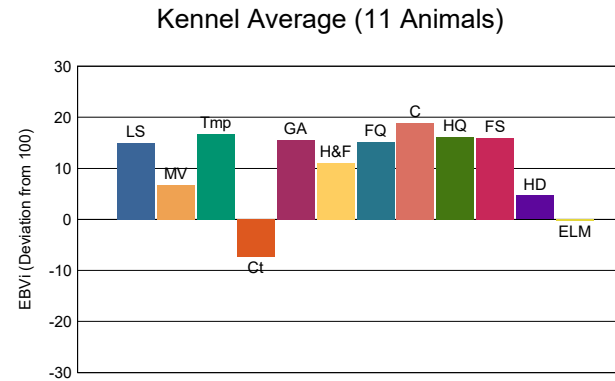
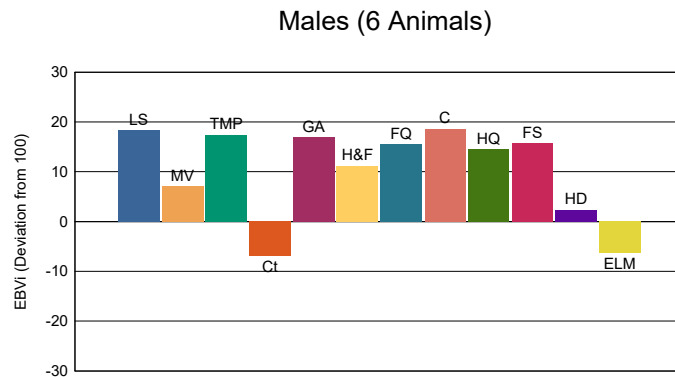
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	115	118	111
Movement (Mv)	107	107	107
Temperament (Tmp)	117	117	116
Coat (Ct)	93	93	92
General Appearance	116	117	114
Head & Face (H&F)	111	111	111
Front Quarter (FQ)	115	116	115
Centre (C)	119	119	119
Hind Quarter (HQ)	116	114	118
Final Score (FS)	116	116	116
Hip Health (HH)	105	102	108
Elbow Health (ELM)	100	94	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.

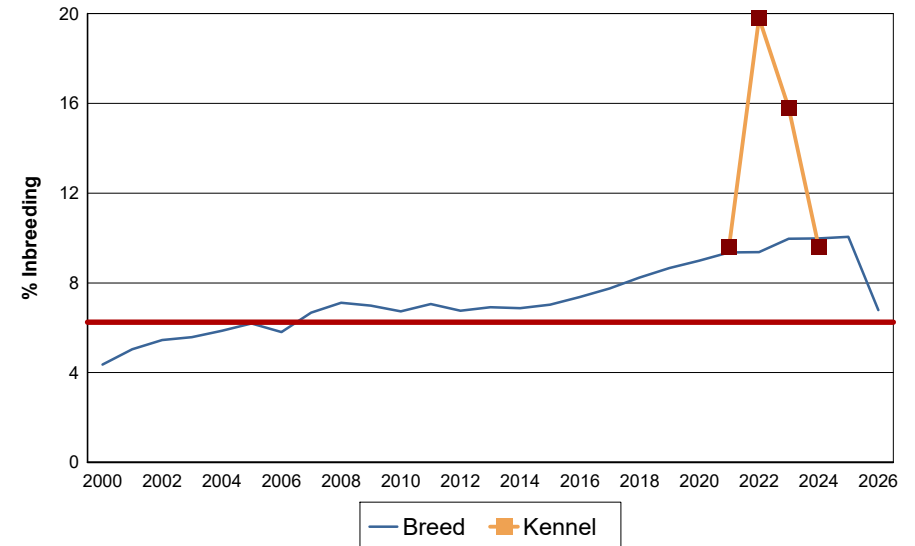
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

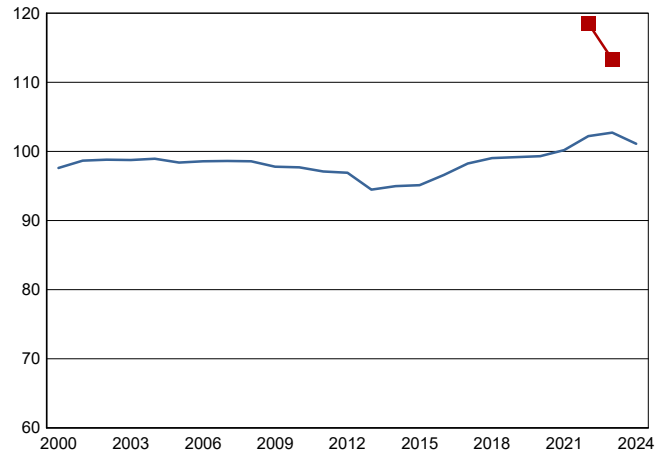


Inbreeding Levels

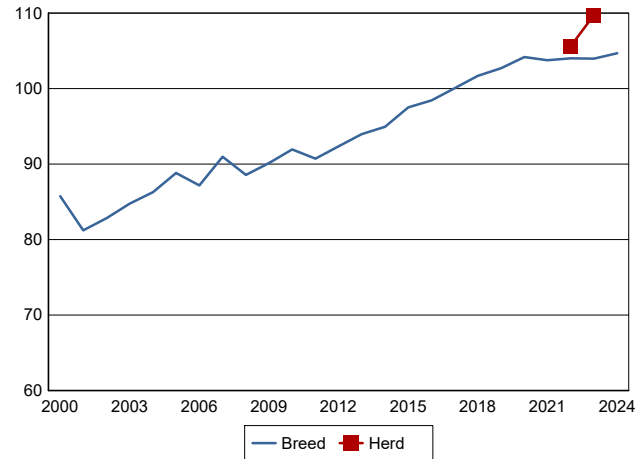
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	11	49007	6	25141	5	23857	7	3371	6	6287
Average Inbreeding	10.61	8.49	10.93	8.46	10.23	8.53	6.03	8.01	6.93	8.00
Number inbred	11	48727	6	24990	5	23728	7	24990	6	23728
Number >6.25% Inbr.	10	30600	6	15537	4	15058	2	15537	3	15058

Genetic Trends

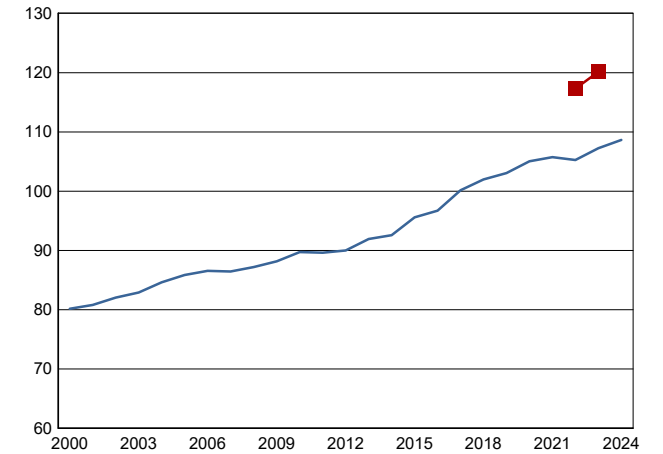
Litter Size



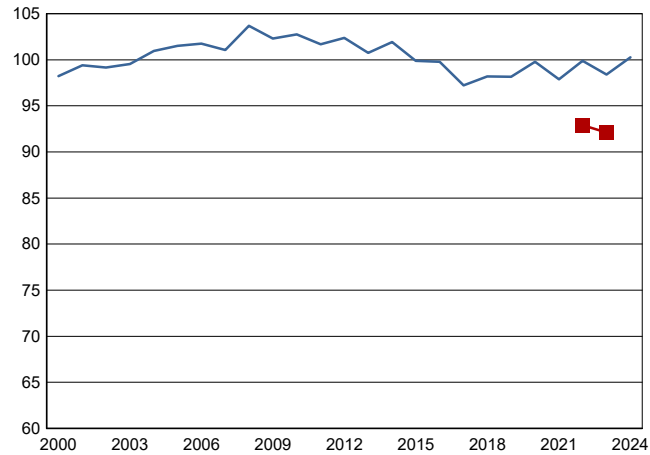
Movement



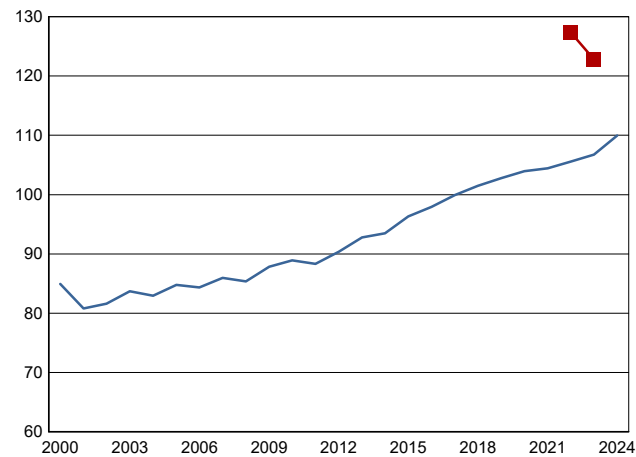
Temperament



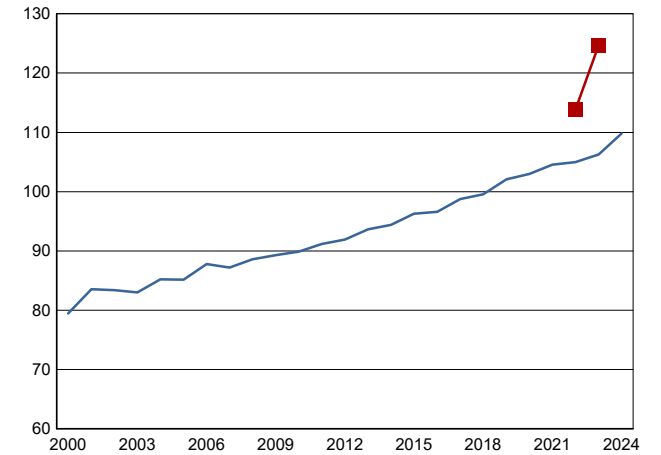
Coat



General Appearance

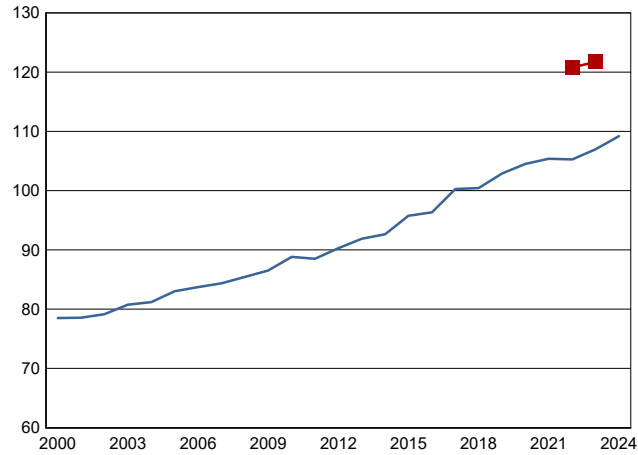


Head & Face

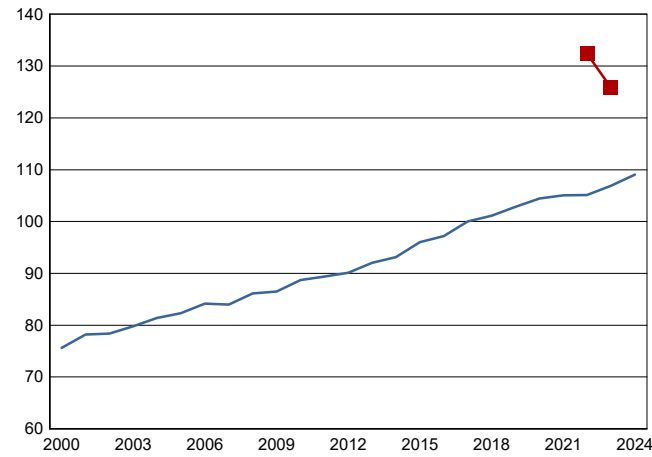


Genetic Trends

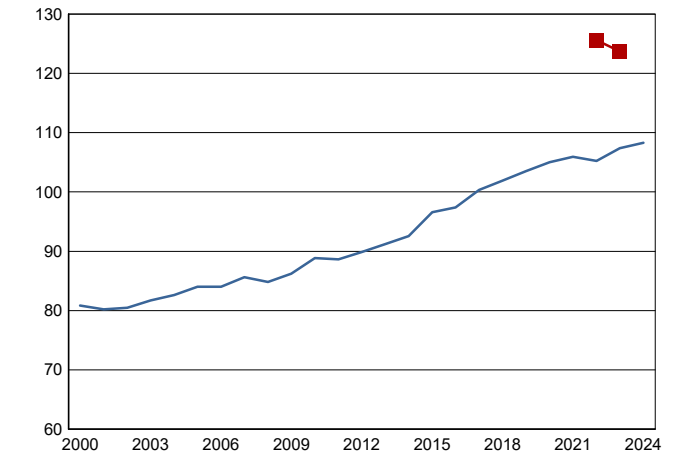
Front Quarter



Centre

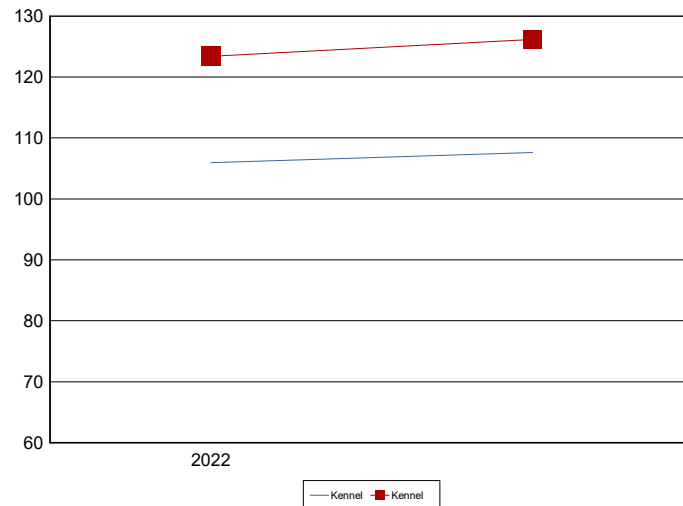


Hind Quarter

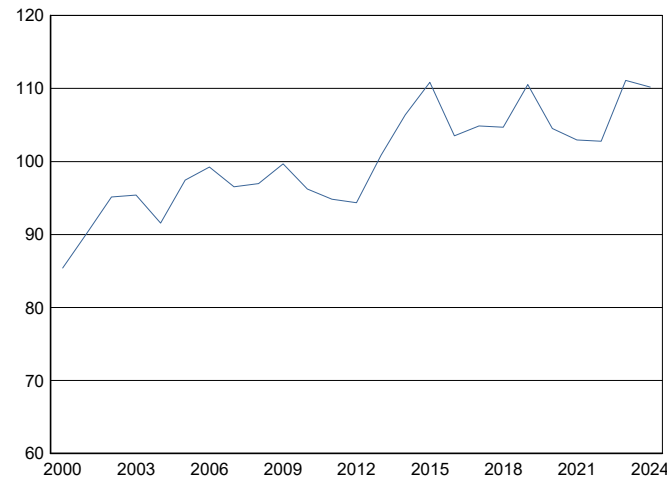


Final Score & Health Traits

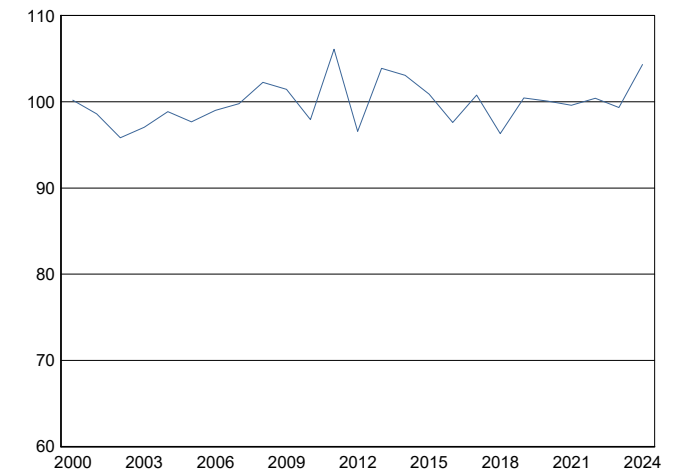
Final Score



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		
KLEIN SANDFONTEIN THE MACK ATTACK		KLEIN SANDFONTEIN HUEY	7.82	91	54	132	112	121	97	123	119	119	120	114	121	84	11	15		10	
	2018	KLEIN SANDFONTEIN PIPER		27	41	44	64	41	78	63	77	65	67	69	73			13	1	1	1
BCN DANKO		AFRIKA BOOMER	9.61	110	89	104	104	113	98	101	109	110	106	114	111						
	2021	AFRIKA LUNA III		5	5	23	35	10	46	35	46	36	38	39	43						
BCN EL CIGALA		KLEIN SANDFONTEIN NUTCRACKER	19.81	114	138	119	109	117	90	126	118	121	130	123	124						
	2023	KLEIN SANDFONTEIN PROMISE		5	5	15	34	5	47	33	46	35	37	39	43						
BCN SULTAN		KLEIN SANDFONTEIN THE MACK ATTACK	9.62	98	89	123	106	116	93	119	110	117	125	117	117						
	2024	KLEIN SANDFONTEIN PROMISE		5	5	20	35	5	45	34	45	35	37	39	42						
BCN ATILA		KLEIN SANDFONTEIN THE MACK ATTACK	9.62	98	89	123	106	116	93	119	110	117	125	117	117						
	2024	KLEIN SANDFONTEIN PROMISE		5	5	20	35	5	45	34	45	35	37	39	42						
AGRAM DAX		CDH BITCOIN	9.09	104	103	111	105	121	89	113	100	110	106	103	105						
	2024	VEILIGPLEK PHEME		5	5	5	31	5	45	31	44	32	34	36	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	Progeny with litters
AFRIKA LUNA III	2018	MES RUBENSTEIN VOLSPPOED MEISIEKIND	5.62	106 18	73 27	92 49	106 55	117 35	96 68	94 55	106 67	105 56	99 57	112 59	107 63	19	2	1 1			2 1
KLEIN SANDFONTEIN PROMISE	2020	KLEIN SANDFONTEIN MATANA KLEIN SANDFONTEIN MARA	6.30	105 5	124 12	113 48	101 44	111 21	89 56	116 44	101 55	114 45	129 47	120 48	114 52	23	3	2 2			
BCN AZAHAR	2022	KLEIN SANDFONTEIN NUTCRACKER KLEIN SANDFONTEIN PROMISE	19.81	114 5	138 5	119 15	109 34	117 5	90 47	126 33	118 46	121 35	130 37	123 39	124 43						
BCN AVATAR	2023	KLEIN SANDFONTEIN NUTCRACKER AFRIKA LUNA III	9.82	115 5	112 16	108 31	111 41	120 19	93 52	115 41	120 51	117 42	115 44	119 45	120 48						
BCN FREYA	2024	KLEIN SANDFONTEIN THE MACK ATTACK KLEIN SANDFONTEIN PROMISE	9.62	98 5	89 5	123 20	106 35	116 5	93 45	119 34	110 45	117 35	125 37	117 39	117 42						

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		
KLEIN SANDFONTEIN MATANA		GLANWYN MANDLA	4.90	93	121	103	94	95	96	104	86	103	125	112	102	73 11	19 15	3 3	17 4		
	2013	KLEIN SANDFONTEIN ASARA		46	55	61	73	50	84	72	83	73	75	77	80						
KLEIN SANDFONTEIN HUEY		GROENBERG BBD RAMBO	5.01	105	72	117	119	129	116	124	102	126	117	124	120	162 28	63 55	13 13	47 10		
	2014	KLEIN SANDFONTEIN KISSKA		52	64	67	81	64	89	80	88	81	83	84	87						
MES RUBENSTEIN		GROENBERG BBD RAMBO	4.08	111	59	133	122	134	109	99	101	114	104	128	116	314 52	101 83	21 20	83 11		
	2016	MES LIZE		58	67	73	86	71	92	86	92	87	88	89	90						
KLEIN SANDFONTEIN NUTCRACKER ZUKANDI BEAU			6.19	124	151	124	116	124	91	136	135	128	131	125	133	119 18	28 25	2 2	24 6		
	2017	LOTTER SANA		34	52	55	74	51	85	73	84	75	76	78	82						
KLEIN SANDFONTEIN THE MACK ATTACK		KLEIN SANDFONTEIN HUEY	7.82	91	54	132	112	121	97	123	119	119	120	114	121	84 11	15 13	1 1	10 1		
	2018	KLEIN SANDFONTEIN PIPER		27	41	44	64	41	78	63	77	65	67	69	73						
AFRIKA BOOMER		AFRIKA RAMBOMAX	8.76	113	106	115	102	109	99	109	113	114	113	115	114	27 2	6 2	1 1	4 2		
	2019	AFRIKA BUKIE		29	43	42	61	38	75	61	74	62	64	66	70						
CDH BITCOIN		CDH BULLET	5.47	102	109	103	103	117	83	103	96	105	101	99	99	58 8	5 3				
	2019	REGAL SUSSA		5	5	31	56	32	71	55	70	57	59	61	66						

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	
KLEIN SANDFONTEIN PIPER	2015	KLEIN SANDFONTEIN CALLIE	5.29	80	77	150	84	94	99	111	108	98	105	92	100	21	2	5	2	2	5
		KLEIN SANDFONTEIN LUNA		15	22	54	59	35	74	59	73	60	62	64	69			5			1
VOLSPGED MEISIEKIND	2016	AFRIKA PATRON	5.54	101	88	53	95	106	80	100	110	104	104	100	103	15	4	2			2
		KWANZA MAYA		16	26	55	55	29	70	55	69	56	58	60	65			2			1
KLEIN SANDFONTEIN MARA	2018	KLEIN SANDFONTEIN NUTCRACKER	10.10	116		123	111	126	79	127	120	125	132	126	126	24	3	6			6
		MES O` HARA		5		51	57	31	73	57	72	58	60	63	68			5			1
AFRIKA LUNA III	2018	MES RUBENSTEIN	5.62	106	73	92	106	117	96	94	106	105	99	112	107	19	2	1			2
		VOLSPGED MEISIEKIND		18	27	49	55	35	68	55	67	56	57	59	63			1			1
KLEIN SANDFONTEIN PROMISE	2020	KLEIN SANDFONTEIN MATANA	6.30	105	124	113	101	111	89	116	101	114	129	120	114	23	3	2			
		KLEIN SANDFONTEIN MARA		5	12	48	44	21	56	44	55	45	47	48	52			2			
VEILIGPLEK PHEME	2020	QUOVADIS PARTNER IN CRIME	8.72	105	98	119	108	124	96	123	105	115	110	107	111	21	3	2			
		VEILIGPLEK KUMA		5	7	19	48	20	64	47	63	49	51	54	59			2			

