

Boerboel Genetic Evaluation

SA Stud Book

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CZECH REPUBLIC

79829



Kennel Number: 611330



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.

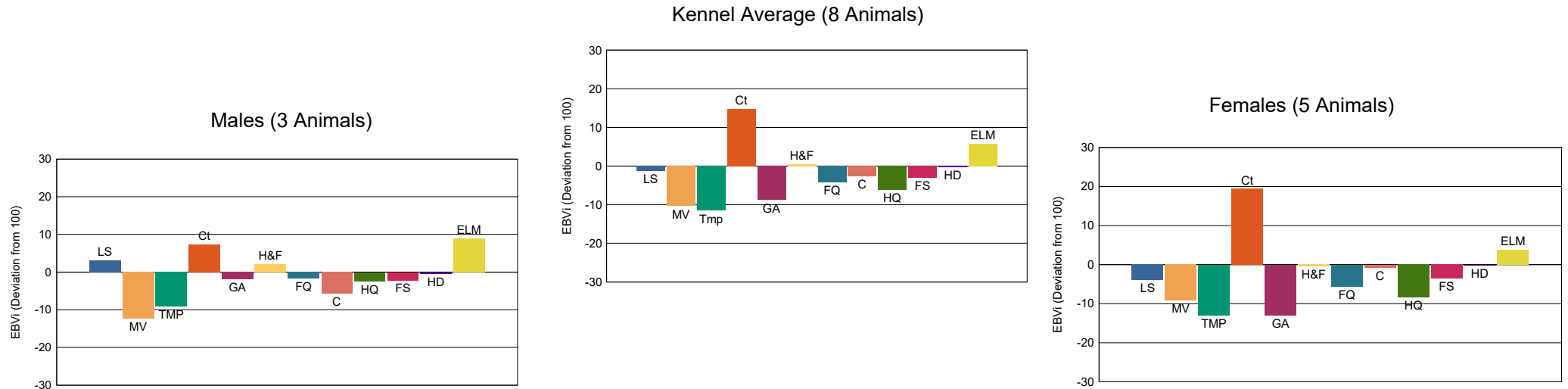
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	103	96
Movement (Mv)	90	88	91
Temperament (Tmp)	89	91	87
Coat (Ct)	115	107	119
General Appearance	91	98	87
Head & Face (H&F)	101	102	100
Front Quarter (FQ)	96	98	94
Centre (C)	97	94	99
Hind Quarter (HQ)	94	98	92
Final Score (FS)	97	98	96
Hip Health (HH)	100	100	100
Elbow Health (ELM)	106	109	104

Inbreeding

Notes

Inbreeding primarily leads to decreased fertility, low survivability of pups and low disease resistance.

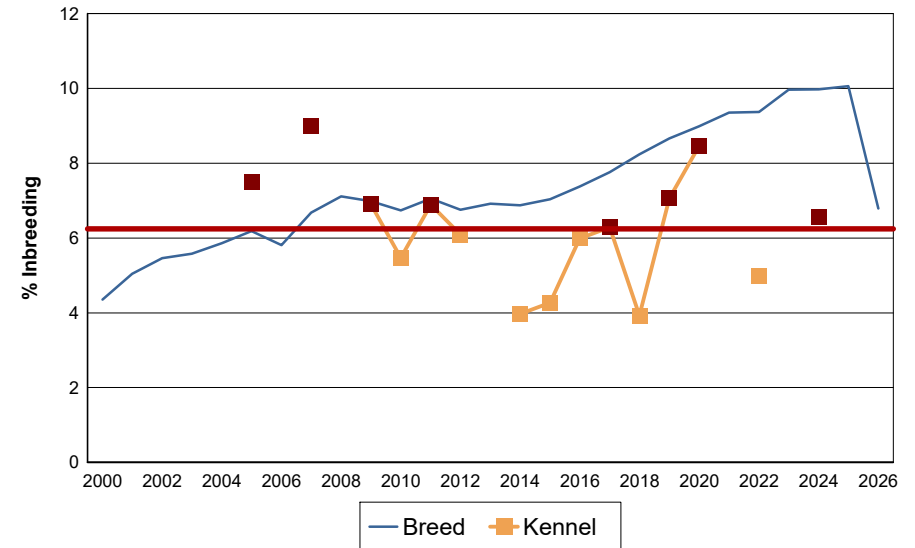
Inbreeding coefficients are calculated for all animals of the breed and indicates the probability that two genes of a pair are the same due to a common ancestor in the pedigree of the animal.

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.

Rate of Inbreeding



Inbreeding Levels for Specific Matings

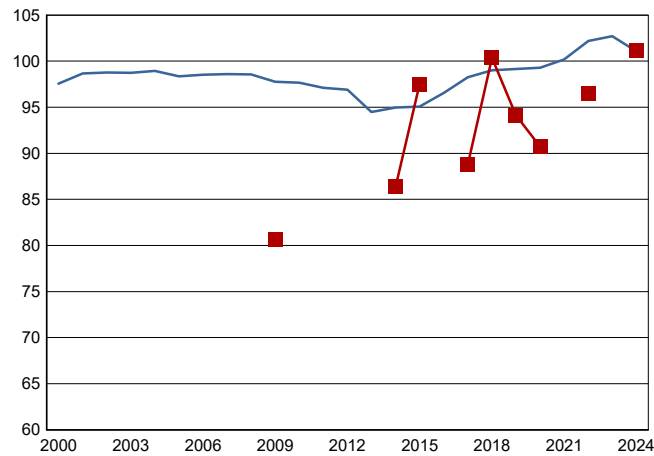
Progeny with Parents :	25%
Full Brother x Full Sister :	25%
Half Brother x Half Sister :	12.5%
One Common Grandparent :	6.25%
One Common Great-Grandparent :	3.125%

Inbreeding Levels

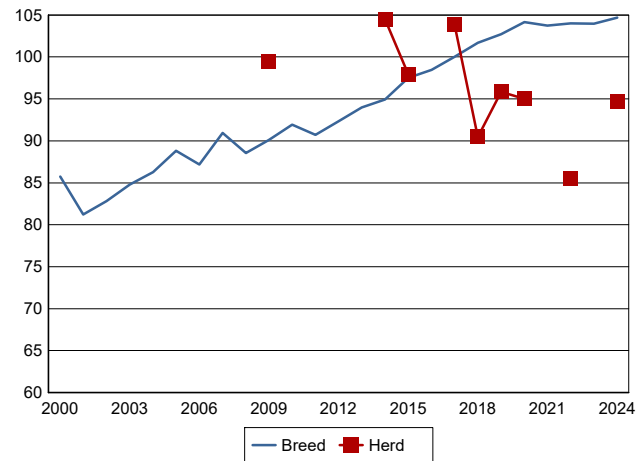
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	8	49007	3	25141	5	23857	6	3371	7	6287
Average Inbreeding	5.59	8.49	7.57	8.46	4.41	8.53	6.01	8.01	3.70	8.00
Number inbred	8	48727	3	24990	5	23728	5	24990	7	23728
Number >6.25% Inbr.	3	30600	2	15537	1	15058	3	15537	1	15058

Genetic Trends

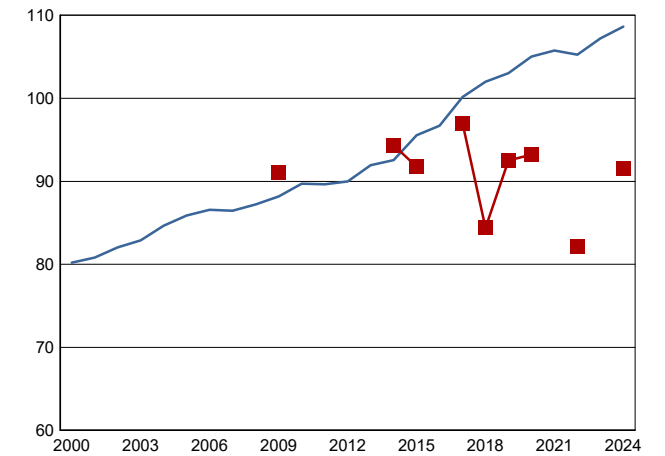
Litter Size



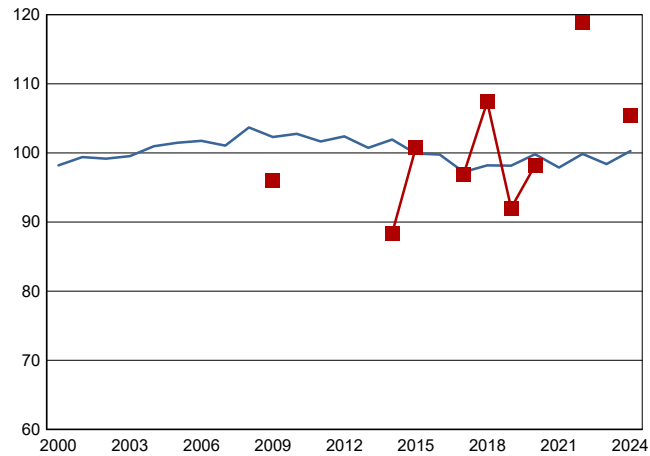
Movement



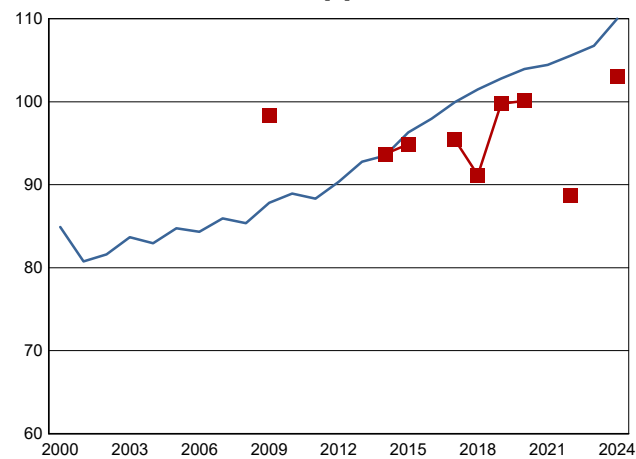
Temperament



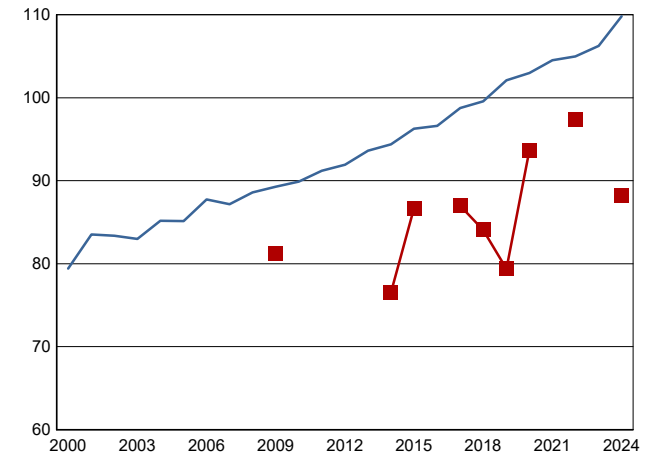
Coat



General Appearance

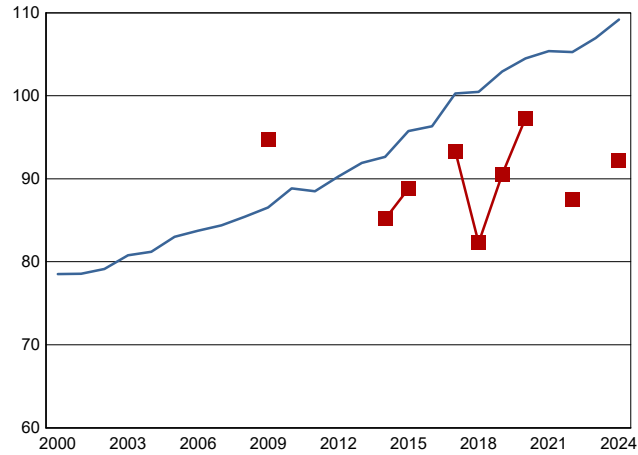


Head & Face

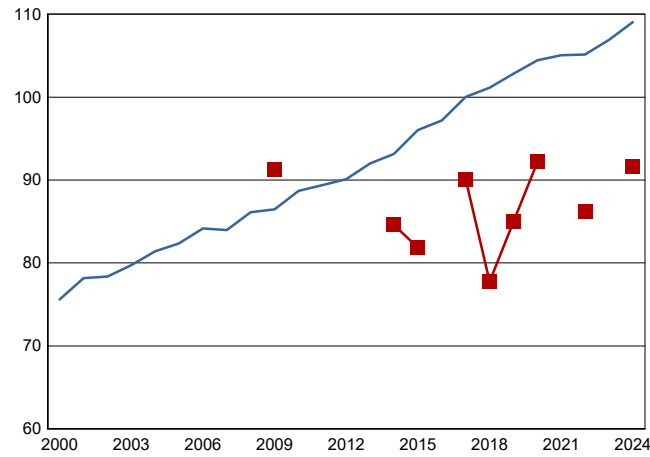


Genetic Trends

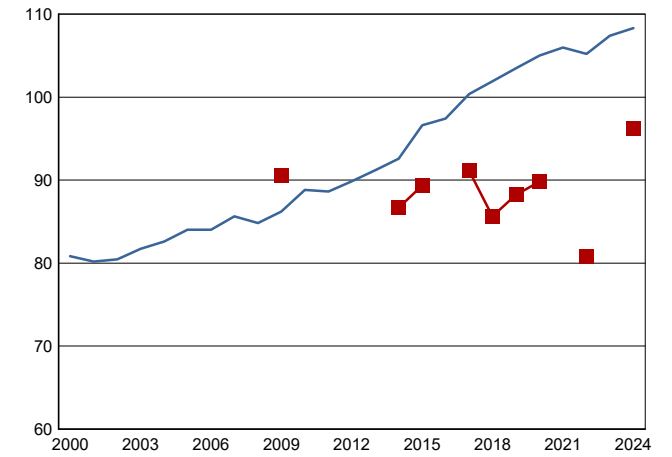
Front Quarter



Centre

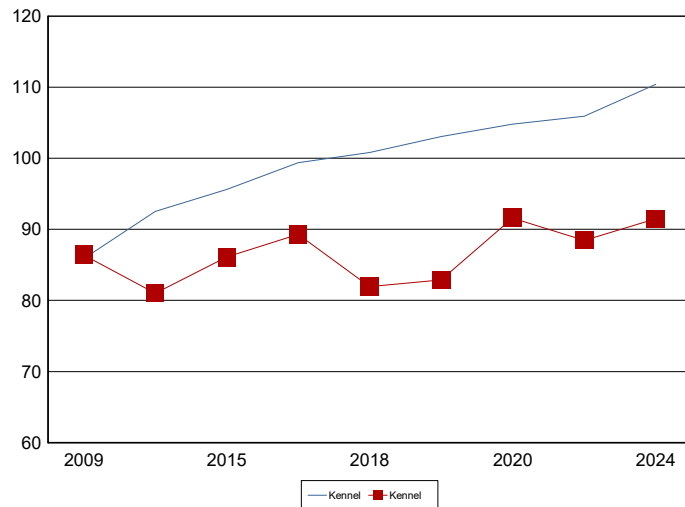


Hind Quarter

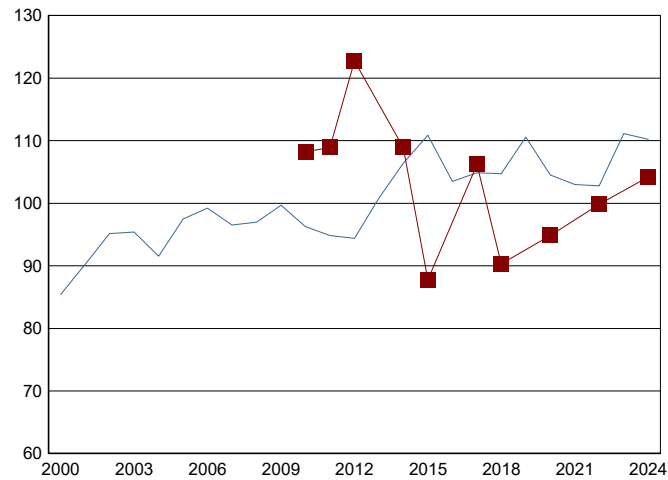


Final Score & Health Traits

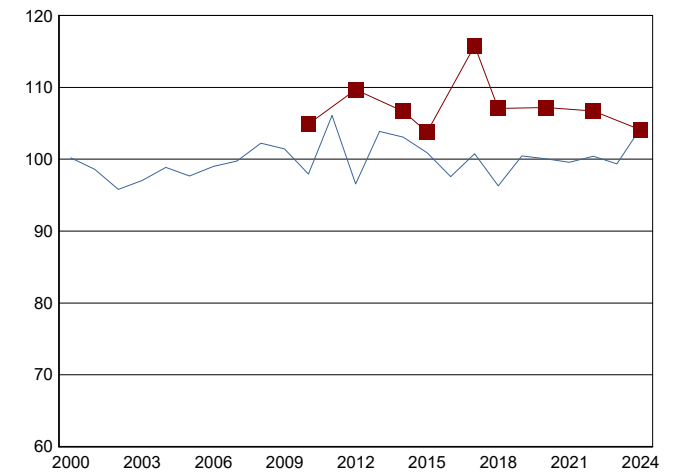
Final Score



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	
BALLOTADA BUKEFALOS		BRACCO M.B. KIMBO	7.19	89	109	106	84	80	118	91	90	80	79	86	85	2	1	1			
	2018	SURRYKATA AGY		5	5	5	22	5	41	21	40	23	26	29	35			1			
BALLOTADA RAMSES II		BRACCO M.B. KIMBO	3.74	91	106	100	84	80	109	91	90	83	81	86	84						
	2018	BALLOTADA VALA MORGHULIS		10	27	5	14	5	32	12	31	15	18	21	26						
WASHUSAR EMIR		KLEIN SANDFONTEIN BOLTZ	11.78	118	112	104	95	113	95	113	126	132	123	122	125						
	2021	KLEIN SANDFONTEIN LOLITA		5	5	5	41	10	57	40	56	42	44	46	51						

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	
BALLOTADA PEGGY	2019	BALLOTADA CAMERON	1.91	88	104	96	97	92	93	101	75	91	87	93	83	1	1	1			
		LITTLE MAGIC EMMA BALLOTADA		5	5	5	35	12	54	34	52	36	38	41	47						
PUSLICA DORA	2019	VOICE VELD JUPITER	3.15	115	101	92	89	86	151	68	122	103	119	95	113	2	1	1	2	2	
		MASCOT MILLENIUM BELLA BELISSIMA		13	23	5	37	9	57	15	56	38	41	44	50						
BALLOTADA IRIS	2022	BALLOTADA BRUNO	3.85	103	103	96	87	81	120	82	103	90	96	83	93						
		PUSLICA DORA		22	38	5	31	5	51	28	49	32	35	38	44						
BALLOTADA SILVER BALI	2024	BALLOTADA BUKEFALOS	9.28	89	107	101	95	92	105	103	88	92	92	96	92						
		BALLOTADA PEGGY		5	5	5	27	5	52	25	50	29	32	36	44						
BALLOTADA VALERIE	2024	BALLOTADA BRUNO	3.85	104	104	96	88	85	127		109	96	103	91	101						
		PUSLICA DORA		5	17	5	17	5	34		33	18	21	24	29						

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		
BALLOTADA CAMERON	2009	MAKSIMUS FROM SOUS AFRIKA	0.00	107	106		99	94	89	96	75	90	91	93	84	9 2	3			1	
		ARACHNE FROM MOLOSS HOUSE		5	5		18	5	30	17	29	19	20	22	26					1	
VOICE VELD JUPITER	2016	VOICE VELD ZUMZUM	1.25	110	100	88	85	88	127	83	105	98	107	89	100	2	1			1	
		VOICE VELD JUMANDJI		10	27		23	5	35	15	34	24	25	27	31					1	
BRACCO M.B. KIMBO	2016	BRACCO M.B. EDEL	9.06	96	107	107	78	75	125	84	97	77	82	88	88	17 3	3	2 2		3	
		WENA-BOERBOELS COCO		5	5		28	5	50	28	49	30	33	36	43					2	
BALLOTADA BUKEFALOS	2018	BRACCO M.B. KIMBO	7.19	89	109	106	84	80	118	91	90	80	79	86	85	2 1	1				
		SURRYKATA AGY		5	5		22	5	41	21	40	23	26	29	35					1	
BALLOTADA BRUNO	2018	BRACCO M.B. KIMBO	3.74	93	107	100	87	83	103	94	97	89	86	86	88	6 1	3	5 5			
		BALLOTADA VALA MORGHULIS		5	23		27	5	46	26	45	28	31	34	40					3	
KLEIN SANDFONTEIN BOLTZ	2020	KLEIN SANDFONTEIN NUTCRACKER	14.82	120	137	107	104	114	97	120	130	126	124	121	127	9 2	4	1 1			
		KLEIN SANDFONTEIN HAPPI		5	5		25	44	14	56	43	56	44	46	48					52	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		Sire		Hips	Elbows	Litter Size	Move-	Tempe-r	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	
	BYr	Dam	%	Acc.	Acc.	Acc.	ment	ament		Appear.	Face	Quarter		Quarter	Score			Kennels			
SURRYKATA AGY		SPITSVUUR BBD TULA I	5.30	82	111	106	88	82	105	90	76	77	70	78	74	15	4	8	2	1	4
	2011	SPITSVUUR BBD SURRY		5	9	17	32	5	48	31	47	33	35	38	42			7		2	
MASCOT MILLENIUM BELLA BELISSIMA		CH. MAGLOR ABSOLUTNAYA VLAST	3.86	122	103	95	101		126	80	103	97	104	95	101	2		1			1
	2014	AFRIKA MANIFA		31	25	22	31		45	27	44	32	34	36	40			1		1	
BALLOTADA VALA MORGHULIS		BRAVEHEART VIKTOR VEGA	2.78	87	104	93	90	85	93	97	84	89	80	83	81	17	3	6	1	1	1
	2015	BALLOTADA MOIRA		28	24	5	25	5	41	24	40	26	28	30	36			5		1	
KLEIN SANDFONTEIN LOLITA		KLEIN SANDFONTEIN HUEY	7.01	116	88	101	101	114	105	112	105	130	120	122	117	7	2	5	1	1	1
	2016	KLEIN SANDFONTEIN ASARA		26	34	43	58	40	68	57	67	58	60	61	64			4		1	
LITTLE MAGIC EMMA BALLOTADA		BRAVEHEART VIKTOR VEGA	1.88	69	102	110	83	81	100	98	74	82	66	79	72	16	2	3			1
	2016	SURRYKATA AGY		8	5	15	37	13	56	36	55	38	41	44	49			3		1	
BALLOTADA PEGGY		BALLOTADA CAMERON	1.91	88	104	96	97	92	93	101	75	91	87	93	83	1	1	1			
	2019	LITTLE MAGIC EMMA BALLOTADA		5	5	5	35	12	54	34	52	36	38	41	47			1			
PUSLICA DORA		VOICE VELD JUPITER	3.15	115	101	92	89	86	151	68	122	103	119	95	113	2	1	1	2	2	
	2019	MASCOT MILLENIUM BELLA BELISSIMA		13	23	5	37	9	57	15	56	38	41	44	50			1			

